

#### This file contains the following documents:

- 1. Summary of application (in plain language)
  - English
  - Alternative Language (Spanish)
- 2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
  - English
  - Alternative Language (Spanish)
- 3. Application materials



#### Este archivo contiene los siguientes documentos:

- 1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
  - Inglés
  - Idioma alternativo (español)
- 2. Primer aviso (NORI, por sus siglas en inglés)
  - Inglés
  - Idioma alternativo (español)
- 3. Solicitud original



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

# Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Enterprise Products Operating LLC, (CN603211277) operates Houston Ship Channel Marine Loading Facility (RN102580834), a facility that transfers natural gas liquids to ships and barges. The facility is located at 15602 Jacintoport Boulevard, in Houston, Harris County, Texas 77015. This application is for an amendment for Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004976000 (EPA I.D. No. TX0133353) to authorize the addition of wet surface air cooler blowdown water on an intermittent and variable basis via Outfall 002.

Discharges from the facility are expected to contain chemical oxygen demand, oil and grease, and total residual chlorine via Outfall 001 and total organic carbon and oil and grease via Outfall 002. Wet surface air cooler blowdown water, filter backwash, hydrostatic test water, and stormwater will be treated by chemical additives via Outfall 001 and wet surface air cooler blowdown water, firewater monitor, test/flush water, hydrostatic test water, and stormwater, will be treated by chemical additives via 002.

### PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

#### AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /AGUAS PLUVIALES

Enterprise Products Operating LLC, (CN603211277) opera Houston Ship Channel Marine Loading Facility (RN102580834), una instalación que transfiere líquidos de gas natural a buques y barcazas. La instalación está situada en 15602 Jacintoport Boulevard, en Houston, Harris County, Texas 77015. Esta solicitud es para una enmienda del Permiso del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) No. WQ0004976000 (EPA I.D. No. TX0133353) para autorizar la adición de agua de purga del enfriador de aire de superficie húmeda de forma intermitente y variable a través del Emisario 002.

Se prevé que los vertidos de la instalación contengan demanda química de oxígeno, aceites y grasas y cloro residual total a través del emisario 001 y carbono orgánico total y aceites y grasas a través del emisario 002. El agua de purga del enfriador de aire de superficie húmeda, el agua de lavado de filtros, el agua de prueba hidrostática y las aguas pluviales se tratarán mediante aditivos químicos a través del emisario 001 y el agua de purga del enfriador de aire de superficie húmeda, el monitor de agua contra incendios, el agua de prueba/lavado, el agua de prueba hidrostática y las aguas pluviales se tratarán mediante aditivos químicos a través del emisario 002.

#### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



## NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT AMENDMENT

#### PERMIT NO. WQ0004976000

**APPLICATION.** Enterprise Products Operating LLC, P.O. Box 4324, Houston, Texas 77210, which owns the Houston Ship Channel Marine Loading Facility, which transfers natural gas liquids products between ships or barges, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004976000 (EPA I.D. No. TX0133353) to authorize adding an additional refrigeration/export train to the site; the wastewater composition is expected to be similar to current wastewater discharges via Outfall 002 from the existing Train 3. The facility is located at 15602 Jacintoport Boulevard, in the city of Houston, Harris County, Texas 77015. The discharge route is from the plant site via Outfall 001 to a series of manmade ditches, thence to Houston Ship Channel Tidal and via Outfall 002 directly to Houston Ship Channel Tidal. TCEQ received this application on June 23, 2025. The permit application will be available for viewing and copying at North Channel Library, 15741 Wallisville Road, Houston, in Harris County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pendingpermits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.131666,29.74&level=18

The application is subject to the goals and policies of the Texas Coastal Management Program and must be consistent with the applicable Coastal Management Program goals and policies.

**ALTERNATIVE LANGUAGE NOTICE.** Alternative language notice in Spanish is available at: <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>. El aviso de idioma alternativo en español está disponible en <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>.

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. Notice of the Application and Preliminary Decision will be published and mailed to those who are on the countywide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.

**MAILING LIST.** If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at <a href="https://www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <a href="https://www14.tceq.texas.gov/epic/eComment/">https://www14.tceq.texas.gov/epic/eComment/</a>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Enterprise Products Operating LLC at the address stated above or by calling Mr. Michael Chastant, Staff Engineer, Environmental, at 713-381-6617.

Issuance Date: July 25, 2025

#### Comisión de Calidad Ambiental del Estado de Texas



#### AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA PERMISO MODIFICACION

#### **PERMISO NO. WQ0004976000**

**SOLICITUD.** Enterprise Products Operating LLC, P.O. Box 4324, Houston, Texas 77210, que es propietaria de la Houston Ship Channel Marine Loading Facility, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WQ0004976000 (EPA I.D. No. TX0133353) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar añadiendo un tren de refrigeración/exportación adicional al sitio; se espera que la composición de las aguas residuales sea similar a las descargas de aguas residuales actuales a través del emisario 002 desde el Tren 3 existente. La planta está ubicada 15602 Jacintoport Boulevard, en la ciudad de Houston, en el Condado de Harris, Texas 77015. La ruta de descarga es del sitio de la planta a través del emisario 001 hasta una serie de zanjas artificiales, de allí al canal de navegación de mareas de Houston y a través del emisario 002 directamente al canal de navegación de mareas de Houston. La TCEQ recibió esta solicitud el 23 de junio de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en North Channel Library, 15741 Wallisville Road, Houston en el condado de Harris, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.131666,29.74&level=18

El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

**AVISO DE IDIOMA ALTERNATIVO.** El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

**AVISO ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas** 

a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.

**COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho

relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

**INFORMACIÓN DISPONIBLE EN LÍNEA.** Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en <a href="www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía

http://www14.tceq.texas.gov/epic/eComment/ o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Enterprise Products Operating LLC a la dirección indicada arriba o llamando a Sr. Michael Chastant al 713-381-6617.

Fecha de emisión: 25 de julio de 2025



June 12, 2025

Return Receipt Requested

Water Quality Division Application Review and Processing Team, MC-148 Texas Commission on Environmental Quality PO Box 13087 Austin, TX 78711

**Re:** Application to Amend TPDES Permit

WQ0004976000, EPA ID No. TX0133353

**Enterprise Products Operating LLC (CN603211277)** 

**Enterprise East Houston Ship Channel Marine Terminal (RN102580834)** 

Houston, Harris County, Texas

Dear Sir or Madam:

Enterprise Products Operating LLC (Enterprise) submits herein to the Texas Commission on Environmental Quality (TCEQ), one original and two copies of the enclosed Major Amendment Application for Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004976000 (Permit).

With this application, Enterprise is proposing to authorize wastewater discharges associated with an additional train (Train 4) for refrigeration of propane.

The application fee has been submitted to TCEQ Financial Administration via ePay and copy of the payment has been included with the enclosed application. The application has also been submitted to TCEQ electronically as required.

Should you have any questions or need any additional information, please contact Michael Chastant at (713) 381-6617 or MDChastant1@eprod.com or Daniel Bissonnette at 713-381-6770.

Sincerely,

**Enterprise Products Operating LLC** 

Michael Chastant

Engineer, Staff Environmental

Daniel M. Bissonnette Supervisor, Environmental

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Enterprise Products Operating LLC
Enterprise East Houston Ship Channel Marine
Terminal
Permit WQ0004976000
RN102580834
CN603211277

**June 2025** 

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Industrial Administrative Report 1.1

Supplemental Permit Information Form

Industrial Technical Report 1.0

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Worksheet 2.0 Pollutant Analyses Requirements

Worksheet 4.0 Receiving Waters

Attachment A Copy of Fee Submittal

Attachment B Core Data Form

Attachment C USGS Map

Attachment D Adjacent Landowners Map

Attachment E Original Photographs

Attachment F SPIF Map

Attachment G Facility Layout Drawings

Attachment H Facility Outfall Locations and Flow Schematics

Attachment I Chemical Additives for Cooling Tower

Attachment J Plain Language Summary

Submission	Checklist



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

	APPLICANT NAME:	<b>Enterprise</b>	Products O	perating LLC
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PERMIT NUMBER (If new, leave blank): WQ00<u>WQ0004976000</u>

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	$\boxtimes$		Worksheet 8.0		$\boxtimes$
Administrative Report 1.1	$\boxtimes$		Worksheet 9.0		$\boxtimes$
SPIF	$\boxtimes$		Worksheet 10.0		$\boxtimes$
Core Data Form	$\boxtimes$		Worksheet 11.0		$\boxtimes$
Summary of Application (PLS)		$\boxtimes$	Worksheet 11.1		$\boxtimes$
Public Involvement Plan Form		$\boxtimes$	Worksheet 11.2		$\boxtimes$
Technical Report 1.0	$\boxtimes$		Worksheet 11.3		$\boxtimes$
Worksheet 1.0	$\boxtimes$		Original USGS Map	$\boxtimes$	
Worksheet 2.0	$\boxtimes$		Affected Landowners Map	$\boxtimes$	
Worksheet 3.0		$\boxtimes$	Landowner Disk or Labels	$\boxtimes$	
Worksheet 3.1		$\boxtimes$	Flow Diagram	$\boxtimes$	
Worksheet 3.2		$\boxtimes$	Site Drawing	$\boxtimes$	
Worksheet 3.3		$\boxtimes$	Original Photographs	$\boxtimes$	
Worksheet 4.0	$\boxtimes$		Design Calculations		$\boxtimes$
Worksheet 4.1		$\boxtimes$	Solids Management Plan		$\boxtimes$
Worksheet 5.0		$\boxtimes$	Water Balance	$\boxtimes$	
Worksheet 6.0		$\boxtimes$			
Worksheet 7.0		$\boxtimes$			

For TCEQ Use Only		
Segment Number _	County	
Expiration Date	Region	

Permit Number



# COMMISSION OF THE PROPERTY OF

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

#### INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use Oil and Gas Exploration and Production Administrative Report (<u>TCEO Form-20893 and 20893-inst</u>¹).

Ite	em 1. Application Information and Fees (Instructions, Page 26)
a.	Complete each field with the requested information, if applicable.
	Applicant Name: Enterprise Products Operating LLC
	Permit No.: <u>WQ0004976000</u>
	EPA ID No.: <u>TX0133353</u>
	Expiration Date: <u>05-12-2028</u>
b.	Check the box next to the appropriate authorization type.
	☑ Industrial Wastewater (wastewater and stormwater)
	☐ Industrial Stormwater (stormwater only)
	☐ Reverse Osmosis Water Treatment (reverse osmosis water treatment wastewaters only)
c.	Check the box next to the appropriate facility status.
	□ Inactive
d.	Check the box next to the appropriate permit type.
	$oxed{oxed}$ TPDES Permit $oxed{\Box}$ TLAP $oxed{\Box}$ TPDES with TLAP component
e.	Check the box next to the appropriate application type.
	□ New
	☐ Renewal with changes ☐ Renewal without changes
	☐ Major amendment with renewal          Major amendment without renewal
	☐ Minor amendment without renewal
	☐ Minor modification without renewal
f.	If applying for an amendment or modification, describe the request: <u>The Enterprise facility</u> is adding one additional refrigeration/export train to the site. The wastewater composition is expected to be similar to current wastewater discharges via Outfall 002 from the existing
	Train 3.

For TCEQ Use Only

<sup>&</sup>lt;sup>1</sup> https://www.tceq.texas.gov/publications/search\_forms.html

Segment Number	County	
Expiration Date	Region	
Permit Number		

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	\$350	⊠ \$350	□ \$315	□ \$150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	\$1,250	□ \$1,250	□ \$1,215	□ \$150
Major facility	N/A <sup>2</sup>	□ \$2,050	□ \$2,015	□ \$450

h. Payment Information

#### Mailed

Check or money order No.: Click to enter text.

Check or money order amt.: Click to enter text.

Named printed on check or money order: Click to enter text.

#### **Epay**

Voucher number: 582EA000672274.

Copy of voucher attachment: Attachment A

#### Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: <u>CN603211277</u>

Note: Locate the customer number using the TCEQ's Central Registry Customer Search<sup>3</sup>.

b. Legal name of the entity (applicant) applying for this permit: <u>Enterprise Products Operating LLC</u>

**Note:** The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr. Full Name (Last/First Name): Bradley J. Cooley

Title: <u>Senior Director</u> Credential: <u>Click to enter text</u>.

d. Will the applicant have overall financial responsibility for the facility?

Vac	NIA
165	INO

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<sup>&</sup>lt;sup>2</sup> All facilities are designated as minors until formally classified as a major by EPA.

<sup>&</sup>lt;sup>3</sup> https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

**Note:** The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

Item 3.	Co-applicant	<b>Information</b>	(Instructions,	Page 27)

- ☐ Check this box if there is no co-applicant.; otherwise, complete the below questions.
- a. Legal name of the entity (co-applicant) applying for this permit: N/A

**Note:** The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): <u>CNClick to enter text.</u>

**Note:** Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

☐ Yes ☐ No

**Note:** The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

#### Item 4. Core Data Form (Instructions, Pages 27)

a. Complete and attach one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)). If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: B

#### Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contacted about this application. Indicate if the individual can be contacted about administrative or technical information, or both.

a. 🗆 Administrative Contact	. 🗵 Technical Contact
-----------------------------	-----------------------

Prefix: Mr. Full Name (Last/First Name): Micheal Chastant

Title: <u>Staff Engineer, Environmental</u> Credential: <u>Click to enter text.</u>

Organization Name: Enterprise Products Operating LLC

Mailing Address: <u>1100 Louisiana St.</u> City/State/Zip: <u>Houston/TX/77002</u>

Phone No: <u>713-381-6617</u> Email: mdchastant1@eprod.com

b. ☑ Administrative Contact ☐ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Daniel Bissonnette

Title: <u>Supervisor</u>, <u>Environmental Permitting</u> Credential: <u>Click to enter text</u>.

Organization Name: Enterprise Products Operating LLC

Mailing Address: 1100 Louisiana St. City/State/Zip: Houston/TX/77002

Phone No: 713-381-3669 Email: dmbissonnette@eprod.com

Attachment: Click to enter text.

#### Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr. Full Name (Last/First Name): Micheal Chastant

Title: Staff Engineer, Environmental Credential: Click to enter text.

Organization Name: Enterprise Products Operating LLC

Mailing Address: <u>1100 Louisiana St.</u> City/State/Zip: <u>Houston/TX/77002</u>

Phone No: 713-381-6617 Email: mdchastant1@eprod.com

b. Prefix: Mr. Full Name (Last/First Name): Daniel Bissonnette

Title: Supervisor, Environmental Permitting Credential: Click to enter text.

Organization Name: <u>Enterprise Products Operating LLC</u>

Mailing Address: 1100 Louisiana St City/State/Zip: Houston/TX/77002

Phone No: 713-381-3669 Email: dmbissonnette@eprod.com

Attachment: Click to enter text.

#### Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Ms. Full Name (Last/First Name): Brenda Mendez

Title: <u>Analyst, Planning & Reports</u> Credential: <u>Click to enter text.</u>

Organization Name: Enterprise Products Operating LLC

Mailing Address: P.O. Box 4324 City/State/Zip: Houston/ TX/77210

Phone No: <u>713-381-6595</u> Email: <u>environmental@eprod.com</u>

#### Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr. Full Name (Last/First Name): Jeff Ritcheson

Title: Lead Field Environmental Scientist Credential: Click to enter text.

Organization Name: Enterprise Products Operating LLC

Mailing Address: 15602 Jacintoport Blvd City/State/Zip: Houston/TX/77015

Phone No: <u>281-860-4787</u> Email: <u>jhritcheson@eprod.com</u>

#### Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mr. Full Name (Last/First Name): Micheal Chastant

Title: <u>Staff Engineer, Environmental</u> Credential: <u>Click to enter text.</u>

Organization Name: Enterprise Products Operating LLC

Mailing Address: 1100 Louisiana St. City/State/Zip: Houston, TX 77002

Phone No: 713-381-6617 Email: mdchastant1@eprod.com

- b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)
  - ☑ E-mail: <u>mdchastant1@eprod.com</u>, <u>dmbissonnette@eprod.com</u>, <u>environmental@eprod.com</u>
  - ☐ Fax: Click to enter text.
  - ⊠ Regular Mail (USPS)

Mailing Address: 1100 Louisiana St.

City/State/Zip Code: Houston, TX 77002

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Michael Chastant

Title: Staff Engineer, Environmental Credential: Click to enter text.

Organization Name: Enterprise Products Operating LLC

Phone No: 713-381-6617 Email: mdchastant1@eprod.com

d. Public Viewing Location Information

**Note:** If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: <u>Harris County Public Library - North Channel Library</u> Location

within the building: Reference desk

Physical Address of Building: 15741 Wallisville Road

City: Houston County: Harris

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

		⊠ Yes □ No
		If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)
	2.	Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
		ĭ Yes □ No
	3.	Do the students at these schools attend a bilingual education program at another location?
		□ Yes ⊠ No
	4.	Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?
		□ Yes ⋈ No □ N/A
	5.	If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? <u>Spanish</u>
f.	Ap	mmary of Application in Plain Language Template – Complete and attach the Summary of plication in Plain Language Template (TCEQ Form 20972), also known as the plain iguage summary or PLS. Attachment: J
g.		mplete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each plication for a new permit or major amendment. Attachment: Click to enter text.
Ito	em	10. Regulated Entity and Permitted Site Information (Instructions Page 29)
a.	TC	EQ issued Regulated Entity Number (RN), if available: RN102580834
	ma the	ete: If your business site is part of a larger business site, a Regulated Entity Number (RN) by already be assigned for the larger site. Use the RN assigned for the larger site. Search at TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN.
b.		me of project or site (name known by the community where located): <u>Enterpriseuston Ship Channel Marine Loading Facility</u>
c.	Is	the location address of the facility in the existing permit the same?
	$\boxtimes$	Yes □ No □ N/A (new permit)
	Wi	te: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or lliamson County, additional information concerning protection of the Edwards Aquifer by be required.
d.	Ov	vner of treatment facility:
	Pre	efix: Click to enter text. Full Name (Last/First Name): Click to enter text.
	or	Organization Name: Enterprise Products Operating LLC
	Ma	tiling Address: P.O. Box 4324 City/State/Zip: Click to enter text.
	Ph	one No: <u>713-381-6595</u> Email: <u>environmental@eprod.com</u>

e.	Ownership of facility:   Public	☑ Private	□ Both	□ Federal
f.	Owner of land where treatment facility is	or will be:	Click to enter text.	
	Prefix: <u>Click to enter text.</u> Full Name (	Last/First N	Name): <u>Click to ent</u>	er text.
	or Organization Name: Enterprise Products Operating LLC			
	Mailing Address: <u>P.O. Box 4324</u>	Ci	ty/State/Zip: <u>Hous</u>	ton/TX/77210
	Phone No: <u>713-381-6595</u> Email: <u>envir</u>	ronmental@	eprod.com	
	<b>Note:</b> If not the same as the facility owner at least six years (In some cases, a lease magnetic to enter text.		0	
g.	Owner of effluent TLAP disposal site (if a	pplicable): <u>l</u>	<u>N/A</u>	
	Prefix: <u>Click to enter text.</u> Full Name (	Last/First N	Name): <u>Click to ent</u>	er text.
	or Organization Name: Click to enter text.			
	Mailing Address: <u>Click to enter text.</u>	Ci	ty/State/Zip: <u>Click</u>	to enter text.
	Phone No: <u>Click to enter text.</u> Email: <u>Click</u>	to enter te	xt.	
	<b>Note:</b> If not the same as the facility owner at least six years. Attachment: Click to ent		ong-term lease agre	eement in effect for
h.	Owner of sewage sludge disposal site (if a	pplicable):		
	Prefix: <u>Click to enter text.</u> Full Name (	Last/First N	Name): <u>Click to ent</u>	er text.
	or Organization Name: <u>N/A</u>			
	Mailing Address: <u>Click to enter text.</u>	Ci	ty/State/Zip: <u>Click</u>	to enter text.
	Phone No: <u>Click to enter text.</u> Email: <u>Click</u>	to enter tex	<u>kt.</u>	
	<b>Note:</b> If not the same as the facility owner at least six years. Attachment: Click to enter		ong-term lease agro	eement in effect for
Ite	em 11. TDPES Discharge/TLAP I Page 31)	Disposal	Information (I	nstructions,
a.	Is the facility located on or does the treate	ed effluent	cross Native Amer	ican Land?
	□ Yes ⊠ No			
b.	Attach an original full size USGS Topogray renewal or amendment applications) with each item below to confirm it has been in	all require	d information. Che	-
	☑ One-mile radius	⊠ Three-	miles downstream	information
	☑ Applicant's property boundaries	☐ Treatn	nent facility bound	aries
	□ Labeled point(s) of discharge	⊠ Highli	ghted discharge ro	ute(s)
	☐ Effluent disposal site boundaries	□ All wa	stewater ponds	
	☐ Sewage sludge disposal site	⊠ New a	nd future construc	tion
	Attachment: C			

c.	Is the location of the sewage sludge disposal site in the existing permit accurate?
	☐ Yes ☐ No or New Permit
	If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>
d.	Are the point(s) of discharge in the existing permit correct?
	☑ Yes ☐ No or New Permit
	If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>
e.	Are the discharge route(s) in the existing permit correct?
	⊠ Yes □ No or New Permit
	If no, or a new permit, provide an accurate description of the discharge route: <u>Click to enter text.</u>
f.	City nearest the outfall(s): <u>Houston</u>
g.	County in which the outfalls(s) is/are located: <u>Harris</u>
h.	Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?
	□ Yes ⊠ No
	If yes, indicate by a check mark if: $\square$ Authorization granted $\square$ Authorization pending
	For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.
	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.
i.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	$\square$ Yes No or New Permit $\boxtimes$ $\underline{N/A}$
	If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>
j.	City nearest the disposal site: $\underline{N/A}$
k.	County in which the disposal site is located: $\underline{N/A}$
l.	For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: $\underline{\text{N/A}}$
m.	For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: $N/A$

#### Item 12. Miscellaneous Information (Instructions, Page 33)

a.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	□ Yes ⊠ No
	If yes, list each person: <u>Click to enter text.</u>
b.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes, provide the following information:
	Account no.: Click to enter text.
	Total amount due: <u>Click to enter text.</u>
c.	Do you owe any penalties to the TCEQ?
	□ Yes ⋈ No
	If yes, provide the following information:
	Enforcement order no.: <u>Click to enter text.</u>
	Amount due: Click to enter text.

#### Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0004976000

page.

Applicant Name: Enterprise Products Operating LLC

Signatory name (typed or printed): Bradley J. Cooley

Certification: I, <u>Brad Cooley</u>, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document and can provide documentation in proof of such authorization upon request.

Signaturo:	Data	
Signature:(Use blue ink)	Date.	
Subscribed and Sworn to before me by	the said	
on this	day of	, 20
My commission expires on the	day of	, 20
Notary Public	[SEAL	.]
County, Texas		
Note: If co-applicants are necessary, ea	ch entity must submit an or	iginal, separate signatu



## INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

#### Item 1. Affected Landowner Information (Instructions, Page 35)

- a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.
  - $\boxtimes$  The applicant's property boundaries.
  - ☑ The facility site boundaries within the applicant's property boundaries.
  - ☑ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.
  - ☑ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
  - ☑ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.
  - ☑ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.
  - ☑ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.
  - ☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.
  - ☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.
  - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.
  - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: D

- b.  $\boxtimes$  that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).
- c. Check this box to confirm a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided. Provide the source of the landowners' names and mailing addresses: <u>Harris County Appraisal District</u>

□ Yes ⊠ No
If yes, provide the location and foreseeable impacts and effects this application has on the land(s): <u>Click to enter text.</u>
Item 2. Original Photographs (Instructions, Page 37)
Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.
☐ At least one original photograph of the new or expanded treatment unit location.
At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
☐ At least one photograph of the existing/proposed effluent disposal site.
🗵 A plot plan or map showing the location and direction of each photograph.
Attachment: <u>E</u>

e. As required by Texas Water Code  $\S$  5.115, is any permanent school fund land affected by this application?



## INDUSTRIAL WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: <u>F</u>

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

### FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:
Application type:RenewalMajor AmendmentMinor AmendmentNew
County: Segment Number:
Admin Complete Date:
Agency Receiving SPIF:
Texas Historical Commission U.S. Fish and Wildlife
Texas Parks and Wildlife Department U.S. Army Corps of Engineers
This form applies to TPDES permit applications only. (Instructions, Page 53)
Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.
Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at

answer specific questions about the property.
Prefix (Mr., Ms., Miss): Mr.
First and Last Name: <u>Michael Chastant</u>
Credential (P.E, P.G., Ph.D., etc.):
Title: Staff Engineer, Environmental
Mailing Address: P.O. Box 4324
City, State, Zip Code: <u>Houston, Texas, 77210</u>
Phone No.: <u>713-381-6617</u> Ext.: Fax No.:
E-mail Address: mdchastant1@eprod.com
List the county in which the facility is located: <u>Harris</u>
If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.
N/A
Provide a description of the effluent discharge route. The discharge route must follow the flow
of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
the classified segment number.
The discharge from Outfall 001 is via pipeline to a man-made ditch on the adjacent terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.  Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.  Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). Attachment F-SPIF Map.
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.  Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). Attachment F-SPIF Map.  Provide original photographs of any structures 50 years or older on the property.
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.  Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). Attachment F-SPIF Map.  Provide original photographs of any structures 50 years or older on the property.  Does your project involve any of the following? Check all that apply.
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.  Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). Attachment F-SPIF Map.  Provide original photographs of any structures 50 years or older on the property.  Does your project involve any of the following? Check all that apply.  Proposed access roads, utility lines, construction easements
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.  Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). Attachment F-SPIF Map.  Provide original photographs of any structures 50 years or older on the property.  Does your project involve any of the following? Check all that apply.  □ Proposed access roads, utility lines, construction easements  □ Visual effects that could damage or detract from a historic property's integrity

2. 3.

4.

5.

	☐ Disturbance of vegetation or wetlands
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	N/A
2.	Describe existing disturbances, vegetation, and land use:
	The facility is located at an existing industrial complex.
AN	HE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS
3.	List construction dates of all buildings and structures on the property:  The Enterprise operations areas at the industrial complex were developed in 1999.
4.	Provide a brief history of the property, and name of the architect/builder, if known.
1.	The property was undeveloped land prior to development as an industrial complex.

Industrial Technical Report 1.0
<u> </u>

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u><sup>1</sup> available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

**NOTE:** This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

## Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

The facility transfers Natural Gas Liquid (NGL) products between ships or barges berthed at one of the several ship/barge docks and various intrastate pipelines. Selective export products are dehydrated, refrigerated, treated, and then routed through the transfer facility for loading onto ships or barges. Enterprise is not requesting any changes to the activity and general nature of business with the major amendment application. SIC Code: 4491

b. Describe all wastewater-generating processes at the facility.

In a Wet Surface Air Cooling (WSAC), a non-contact blowdown is generated from cooling warm process fluids in a closed-loop tube bundle; therefore, the cooled fluid does not contact the outside air. To cool the fluid, induced airflow and water continuously flow downward across the tube bundle surfaces. The air ensures that water is evenly distributed on the tube bundle surfaces, minimizing fouling potential. WSAC blowdown discharges continuously via Outfall 001 and Outfall 002. Fire monitor test/flush water is utilized as needed to test or flush the fire system and is discharged intermittently via Outfalls 001 and 002. Hydrostatic test water will be discharged, as needed, on an intermittent basis from Outfall 001 and Outfall 002.

https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES\_industrial\_wastewater\_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

#### **Materials List**

Raw Materials	Intermediate Products	Final Products
Natural Gas Liquid		Natural Gas Liquid

Attachment: Click to enter text.

- d. Attach a facility map (drawn to scale) with the following information:
  - Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
  - The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

	Attachment: <u>G</u>
e.	Is this a new permit application for an existing facility?
	□ Yes ⊠ No
	If yes, provide background discussion: Click to enter text.
f.	Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.
	⊠ Yes □ No
	List source(s) used to determine 100-year frequency flood plain: FEMA Map - 48201C0910M, revised January 6, 2017

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.

Attachment: Click to enter text.

g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

	☐ res ☐ No ☐ N/A (reflewal offly)
h.	If <b>yes</b> to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?
	□ Yes □ No
	If <b>yes</b> , provide the permit number: Click to enter text.
	If <b>no</b> , provide an approximate date of application submittal to the USACE: Click to enter text.
It	em 2. Treatment System (Instructions, Page 40)
a.	List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.
	Chemical additives used in the raw water feed to the WSAC are the only treatment at this facility. Enterprise is not requesting any changes to the treatment process with this major amendment application. SDS for all additives are included in Attachment I.
b.	Attach a flow schematic <b>with a water balance</b> showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.
<b>T</b> .	Attachment: H
It	em 3. Impoundments (Instructions, Page 40)
Do	bes the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)
	□ Yes ⊠ No
3.6	no, proceed to Item 4. If yes, complete Item 3.a for existing impoundments and Items 3.a - e for new or proposed impoundments. NOTE: See instructions, Pages 40-42, for additional formation on the attachments required by Items 3.a - 3.e.
a.	Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

**Use Designation:** Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

**Associated Outfall Number:** Provide an outfall number if a discharge occurs or will occur.

**Liner Type:** Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

**Leak Detection System:** If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

**Groundwater Monitoring Wells and Data:** If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

**Dimensions:** Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

**Compliance with 40 CFR Part 257, Subpart D:** If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

**Date of Construction:** Enter the date construction of the impoundment commenced (mm/dd/yy).

#### **Impoundment Information**

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), Not Including Freeboard				
Freeboard (ft)				
Surface Area (acres)				
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

Attachment: Click to enter text.

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1.	Line	er data				
		Yes		No		Not yet designed
2.	Lea	k detectio	on sy	stem or	grou	ndwater monitoring data
		Yes		No		Not yet designed
3.	Gro	undwate	r imp	oacts		

**NOTE:** Item b.3 is required if the bottom of the pond is not above the seasonal highwater table in the shallowest water-bearing zone.

Not yet designed

Attachment: Click to enter text.

No

Yes

For TLAP applications: Items 3.c - 3.e are not required, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

# Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

**For TLAP applications:** Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal

area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

## **Outfall Longitude and Latitude**

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	29.739036	95.131667
(WQ4976)		
002	29.737778	95.131147
(WQ4976)		

### **Outfall Location Description**

Outfall No.	Location Description
001	At the discharge from the man-made ditch on the adjacent terminal property.
(WQ4976)	
002	At the discharge prior to entry into the Houston Ship Channel.
(WQ4976)	

## Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point			
001	Prior to entering the man-made ditch.			
(WQ4976)				
002	Same as location description			
(WQ4976)				

## Outfall Flow Information - Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	Variable	Variable	Variable	Variable	
(WQ4976)					
002	Variable	Variable	Variable	Variable	
(WQ4976)					

## Outfall Discharge - Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used	
001 Y		Y*	Flow Meter*	
(WQ4976)				
002	Y	Y*	Flow Meter*	
(WQ4976)				

Outfall No.	Pumped Discharge?	Gravity Discharge?	Type of Flow Measurement
	Y/N	Y/N	Device Used

<sup>\*</sup>Discharge of utility blowdown is pumped (and measured via flowmeter), then the discharge flows into the stormwater conveyance where the discharge gravity drains to Outfall 001.

## **Outfall Discharge - Flow Characteristics**

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	Y	N	Y	24	31	12
002	Y	N	Y	24	31	12

#### **Outfall Wastestream Contributions**

#### Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Wet Surface Air Cooler Blowdown	Variable	Intermittent
Stormwater	Variable	Intermittent
Fire monitor test/flush water	Variable	Intermittent
Hydrostatic Test	Variable	Intermittent

#### Outfall No. 002

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Wet Surface Air Cooler Blowdown	Variable	Intermittent
Filter Water backflush	Variable	Intermittent
Stormwater	Intermittent	Intermittent
Fire monitor test/flush water	Intermittent	Intermittent
Hydrostatic Test	Intermittent	Intermittent

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: Click to enter text.

# Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a.	indicate ii	tne racility	currently c	or prop	oses to:	

$\boxtimes$	Yes □	No	Use cooling towers that discharge blowdown or other wastestream	ıs

☐ Yes ☒ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ No Discharge once-through cooling water

**NOTE:** If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required**.

- b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.
  - Manufacturers Product Identification Number
  - Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
  - Chemical composition including CASRN for each ingredient
  - Classify product as non-persistent, persistent, or bioaccumulative
  - Product or active ingredient half-life
  - Frequency of product use (e.g., 2 hours/day once every two weeks)
  - Product toxicity data specific to fish and aquatic invertebrate organisms
  - Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

**Attachment:** Click to enter text.

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

## **Cooling Towers and Boilers**

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	5		
Boilers			

## Item 6. Stormwater Management (Instructions, Page 44)

Will	any	existir	ig/pro	posed	outfalls	discharge	stormwater	associate	d with	industrial	activities,
as d	lefine	ed at 4	0 CFF	R § 122	2.26(b)(1-	<i>4)</i> , commi	ngled with a	ny other v	vastest	ream?	

$\boxtimes$	Yes	No

If yes, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Stormwater from process areas will not typically contact raw materials or products during normal operations since processes occur in closed piping/vessels that undergo regular preventative maintenance. Processing areas may also include storage of chemical additives in closed containers and rotating equipment maintained with lubricants/greases. In the event of heavy maintenance activity and/or spills inside the process units after cleaning up, residues may be entrained in stormwater flows

## Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a. Check the box next to the appropriate method of domestic sewage and domestic sewage

	sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.
	Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.
	☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.
	$\square$ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.
	☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.
	☐ Facility is a POTW. Complete Worksheet 5.0.
	□ Domestic sewage is not generated on-site.
	$\square$ Other (e.g., portable toilets), specify and Complete Item 7.b: Click to enter text.
b.	Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility

which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the

name and TCEO Registration No. of the hauler.

#### Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Specialized Maintenance Services, Inc.	83853
Gulf Coast Waste Disposal Authority	WQ0001740000

# Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a.	Is the permittee currently required to meet any implementation schedule for complia enforcement?	nce or
	□ Yes ⊠ No	
b.	Has the permittee completed or planned for any improvements or construction projection	cts?
	□ Yes ⊠ No	
c.	If <b>ves</b> to either 8.a <b>or</b> 8.b, provide a brief summary of the requirements and a status	

## Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

□ Yes ⊠ No

update: Click to enter text.

If **yes**, identify the tests and describe their purposes: Click to enter text.

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment**: Click to enter text.

## Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

□ Yes ⊠ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

- b. Attach the following information to the application:
  - List of wastes received (including volumes, characterization, and capability with on-site wastes).
  - Identify the sources of wastes received (including the legal name and addresses of the generators).
  - Description of the relationship of waste source(s) with the facility's activities.

Attachment: Click to enter text.

c.	Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?					
	□ Yes □ No					
	If <b>yes</b> , provide the name, address, and TCEQ, NPDES, contributing facility and a copy of any agreements or					
	<b>Attachment:</b> Click to enter text.					
d.	. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?					
	□ Yes □ No					
If	yes, Worksheet 6.0 of this application is required.					
It	em 11. Radioactive Materials (Instru	ctions, Page 46)				
a.	Are/will radioactive materials be mined, used, stored,  Yes No	or processed at this facility?				
	If <b>yes</b> , use the following table to provide the results or radioactive materials that may be present. Provide results or results of the resu	,				
Ra	dioactive Materials Mined, Used, Stored, or Processed					
R	adioactive Material Name	Concentration (pCi/L)				
b.	Does the applicant or anyone at the facility have any radioactive materials may be present in the discharge radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials in the source waters or on the facility have any radioactive materials and radioactive materials have any r	, including naturally occurring				
	If <b>yes</b> , use the following table to provide the results of radioactive materials that may be present. Provide resinformation provided in response to Item 11.a.					
Ra	dioactive Materials Present in the Discharge					
R	adioactive Material Name	Concentration (pCi/L)				
1		j				

## Item 12. Cooling Water (Instructions, Page 46)

a.	Does the facility use or propose to use water for cooling purposes?						
		Yes					
		No					
		Decom	missioned: Click to	enter text.			
		□ To Be Decommissioned: Click to enter text.					
	If yes	, complete	e Items 12.b thru 1	2.f. If <b>no</b> , stop here.			
	If dec	ommissio	<b>oned</b> , provide the d	ate operation ceased	d and stop here.		
	If to <b>b</b>	e decomi	<b>missioned</b> , provide	the date operation	is anticipated to ce	ase and stop here.	
b.	Coolir	ng water i	s/will be obtained	from a groundwater	source (e.g., on-site	e well).	
		Yes	⊠ No				
	If yes	, stop her	e. If <b>no</b> , continue.				
c.	Coolir	ng Water S	Supplier				
			name of the owner er for cooling purpo	(s) and operator(s) foses to the facility.	or the CWIS that su	pplies or will	
Co	oling W	ater Intak	e Structure(s) Owne	r(s) and Operator(s)			
	WIS ID		S1010013A				
O	wner		City of Houston				
O	perato	r	City of Houston				
	2. Co	oling wat	er is/will be obtain	ed from a Public Wa	ater Supplier (PWS)		
			No ⊠ Yes; F	WS No.: PWS No. TX	<u>1010013</u>		
	If 1	<b>no</b> , contin	nue. If <b>yes</b> , provide	the PWS Registratio	n No. and stop here	2.	
	3. Co	oling wat	er is/will be obtain	ed from a reclaimed	l water source?		
			No 🗆 Yes; A	auth No.: Click to en	ter text.		
	If ı	<b>no</b> , contin	_	the Reuse Authoriz		here.	
	4. Co	oling wat	er is/will be obtain	ed from an Indepen	dent Supplier		
			No □ Yes; A	JF:_Click to enter tex	xt.		
				y <b>es</b> , provide the actuused to provide wat			
d.	316(b)	) General	Criteria				
		mulative (		ater for cooling pur of 2 MGD or greater		has or will have a	

	2.	At least 25% of the total water withdrawn by the CWIS(s) is/will be used at the facility exclusively for cooling purposes on an annual average basis.
		□ Yes □ No
	3.	The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in <i>40 CFR §</i> 122.2.
		$\square$ Yes $\square$ No. Explanation: Click to enter text.
		If <b>no</b> , provide an explanation of how the waterbody does not meet the definition of Waters of the United States in 40 CFR § 122.2.
	-	to all three questions in Item 12.d, the facility <b>meets</b> the minimum criteria to be subject full requirements of Section 316(b) of the CWA. Proceed to <b>Item 12.f</b> .
be	sul	to any of the questions in Item 12.d, the facility <b>does not meet</b> the minimum criteria to eject to the full requirements of Section 316(b) of the CWA; however, a determination is red based upon BPJ. Proceed to <b>Item 12.e</b> .
e.		the facility does not meet the minimum requirements to be subject to the fill requirements Section 316(b) <b>and uses/</b> proposes <b>to use cooling towers</b> .
		Yes □ No
		<b>yes</b> , stop here. If <b>no</b> , complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to ow for a determination based upon BPJ.
f.	Oi	l and Gas Exploration and Production
	1.	The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.
		□ Yes □ No
		If <b>yes</b> , continue. If <b>no</b> , skip to Item 12.g.
	2.	The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).
		□ Yes □ No
		If <b>yes</b> , complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If <b>no</b> , skip to Item 12.g.3.
g.	Co	empliance Phase and Track Selection
	1.	Phase I - New facility subject to 40 CFR Part 125, Subpart I
		□ Yes □ No
		If <b>yes</b> , check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
		□ Track I - AIF greater than 2 MGD, but less than 10 MGD
		• Attach information required by 40 CFR §§ 125.86(b)(2)-(4).
		□ Track I - AIF greater than 10 MGD
		<ul> <li>Attach information required by 40 CFR § 125.86(b).</li> </ul>

□ Track II
<ul> <li>Attach information required by 40 CFR § 125.86(c).</li> </ul>
Attachment: Click to enter text.
2. Phase II - Existing facility subject to 40 CFR Part 125, Subpart J
□ Yes □ No
If <b>yes</b> , complete Worksheets 11.0 through 11.3, as applicable.
3. Phase III - New facility subject to 40 CFR Part 125, Subpart N
□ Yes □ No
If <b>yes</b> , check the box next to the compliance track selection and provide the requested information.
□ Track I – Fixed facility
• Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
☐ Track I – Not a fixed facility
<ul> <li>Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).</li> </ul>
□ Track II – Fixed facility
• Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.
Attachment: Click to enter text.
Item 13. Permit Change Requests (Instructions, Page 48)
This item is only applicable to existing permitted facilities.
a. Is the facility requesting a <b>major amendment</b> of an existing permit?
⊠ Yes □ No
If <b>yes</b> , list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.
The Enterprise Houston Ship Channel Marine Loading facility is adding an additional
refrigeration/export train to the site. The wastewater composition is expected to be similar to current wastewater discharges via Outfall 002 from the existing Train 3.
h. In the facility requesting any minor amendments to the narmit?
b. Is the facility requesting any <b>minor amendments</b> to the permit?
□ Yes ⊠ No

	,
	Click to enter text.
<u>-</u>	Is the facility requesting any <b>minor modifications</b> to the permit?
	☐ Yes ☑ No
	If <b>yes</b> , list and describe each change individually.
	Click to enter text.

## Item 14. Laboratory Accreditation (Instructions, Page 49)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25*, *Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

The laboratory is an in-house laboratory and is:

If **ves**, list and describe each change individually.

- o periodically inspected by the TCEQ; or
- o located in another state and is accredited or inspected by that state; or
- o performing work for another company with a unit located in the same site; or
- o performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

#### **CERTIFICATION:**

I certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

Printed Name: Click to enter text.
Title: Click to enter text.
Signature:
Date:

# Worksheet 1.0 EPA Effluent Guidelines

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet **is required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

	micai muusutes	(Instructions, P	age 53)
Is this facility subject	to any 40 CFR categorica	al ELGs outlined on pag	ge 53 of the instructions?
□ Yes ⊠ No			
If <b>no</b> , this worksheet i	is not required. If <b>yes</b> , pr	ovide the appropriate	information below.
40 CFR Effluent Guidel	ine		
Industry		4	0 CFR Part
Itam 2 Produc	-4 /D D-	/ <del>-</del>	
Itcili 2. I I buu	ction/Process Da	ta (Instructions	s, Page 54)
NOTE: For all TPDES pof oil and gas explora	permit applications reque tion and production was er the Oil and Gas Extract	esting individual perm tewater (discharges int	t coverage for discharges o or adjacent to water in
NOTE: For all TPDES J of oil and gas explora the state, falling unde	permit applications reque tion and production was er the Oil and Gas Extract	esting individual perm tewater (discharges int	t coverage for discharges o or adjacent to water in
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data	permit applications reque tion and production was er the Oil and Gas Extract	esting individual perm tewater (discharges int ion Effluent Guidelines	t coverage for discharges o or adjacent to water in s - 40 CFR Part 435), see
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data	permit applications reque tion and production was er the Oil and Gas Extract 2 instead.	esting individual perm tewater (discharges int ion Effluent Guidelines	t coverage for discharges o or adjacent to water in s - 40 CFR Part 435), see
NOTE: For all TPDES pof oil and gas explora the state, falling under Worksheet 12.0, Item  a. Production Data  Provide appropriate defined the state of the state	permit applications reque tion and production was er the Oil and Gas Extract 2 instead.	esting individual perm tewater (discharges int ion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.

		rcent of total production. I as required by <i>40 CFR Pa</i>	
Percentage of Total F	Production Percent of Total	Appendix A and B -	Appendix A -
Subcategory	Production	Metals	Cyanide
c. Refineries (40 C	FR Part 419)		
•	ole subcategory and a br	gof justification	
riovide the applicat	——————————————————————————————————————	Ter justification.	
Click to enter text.			
T. 0. D.	/1 T	TAT . TI	(T 1
	-	Wastewater Flow	s (Instructions,
Page	54)		
		generated by the facility, i	_
		which wastewater flows	
		al practices for wastewate or discharge under this per	
Crossredite, writer are		ar anocharge anner and per	
Click to enter text.			

b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)

## Item 4. New Source Determination (Instructions, Page 54)

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

**Wastewater Generating Processes Subject to Effluent Guidelines** 

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced

# Worksheet 2.0 Pollutant Analyses Requirements

## INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

## Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): Click to enter text.
- Check the box to confirm all samples were collected no more than 12 months prior to b. □ the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: Click to enter text.

## Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: Click to enter text.

## TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab						
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)		
BOD (5-day)						
CBOD (5-day)						
Chemical oxygen demand						
Total organic carbon						
Dissolved oxygen						
Ammonia nitrogen						
Total suspended solids						
Nitrate nitrogen						
Total organic nitrogen						
Total phosphorus						
Oil and grease						
Total residual chlorine						

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

## **TABLE 3 (Instructions, Page 58)**

**Completion** of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

**Partial completion** of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Epichlorohydrin (1-Chloro-2,3-epoxypropane)					
Ethylbenzene					10
Ethylene Glycol					
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
4,4'-Isopropylidenediphenol (bisphenol A)					1
Methyl ethyl ketone					50
Methyl tert-butyl ether (MTBE)					
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

<sup>(\*)</sup> Indicate units if different from µg/L.

## **TABLE 4 (Instructions, Pages 58-59)**

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

Is this facility an industrial/commercial facility which currently or proposes to directly

### a. Tributyltin

whic	ch c	e of wastewater from the types of operations listed below or a domestic facility currently or proposes to receive wastewater from the types of industrial/commercial ons listed below?
	]	Yes   No
•		check the box next to each of the following criteria which apply and provide the triate testing results in Table 4 below (check all that apply).
		Manufacturers and formulators of tributyltin or related compounds.
		Painting of ships, boats and marine structures.
		Ship and boat building and repairing.
		Ship and boat cleaning, salvage, wrecking and scaling.
	]	Operation and maintenance of marine cargo handling facilities and marinas.
	]	Facilities engaged in wood preserving.
		Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present

#### b. Enterococci (discharge to saltwater)

in the effluent.

This f	facility d	lischa	rges/	proposes	to dis	charge (	directl	y into sa	altwater r	receiving w	aters <b>and</b>
Enter	ococci b	acteri	a are	expected	to be	present	in the	dischai	rge based	l on facility	y processes

Yes	No

<sup>(\*\*)</sup> Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

Domestic wastewater is	/will be disch	narged.							
□ Yes □ No	)								
If <b>yes to either</b> question	n, provide the	appropr	iate te	esting re	esults i	n Tab	le 4 bel	ow.	
c. E. coli (discharge to fre	shwater)								
This facility discharges, <i>E. coli</i> bacteria are expe	proposes to								
□ Yes □ No	- )			J					
Domestic wastewater is	/will be disch	narged.							
□ Yes □ No	)								
If <b>yes to either</b> question	n, provide the	appropri	iate te	esting r	esults i	n Tab	le 4 bel	low.	
Table 4 for Outfall No.: Click	to enter text.	Sampl	es are	(check	one): 🗆	Co	mposite		Grab
Pollutant		mple 1		ple 2	Samp		Sampl		MAL
Tributyltin (μg/L)									0.010
Enterococci (cfu or MPN/1	.00 mL)								N/A
E. coli (cfu or MPN/100 ml	L)								N/A
TABLE 5 (Instructions, Page Completion of Table 5 is rewastewater from a facility wastewaters which may confirm this facility does not/will not/will not discharge other N/A  Table 5 for Outfall No.: Click	equired for a which manufa ntain pesticid I not manufac er wastewater	actures or les or herl cture or fo s that ma	form bicide ormul y cont	iulates j s. ate pes tain pes	pesticio ticides sticides	des or or he	herbic rbicides erbicide	ides of andes, ch	does eck N/A
Pollutant	Sample 1	Sample		(check Sampl			mposite ple 4	□ MA	Grab 1
Tonutunt	(μg/L)*	(μg/L)*		(μg/L)		(μg/	L)*	(μg/	
Aldrin								0.01	
Carbaryl								5	-
Chlordane								0.2	
Chlorpyrifos								0.05	)
4,4'-DDD								0.1	
4,4'-DDE								0.1	
4,4'-DDT								0.02	)
2,4-D								0.7	
Danitol [Fenpropathrin]								_	
Demeton								0.20	)

Diazinon

0.5/0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I ( <i>alpha</i> )					0.01
Endosulfan II ( <i>beta</i> )					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (alpha)					0.05
Hexachlorocyclohexane (beta)					0.05
Hexachlorocyclohexane (gamma) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

<sup>\*</sup> Indicate units if different from µg/L.

## TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (μg/L)*
Bromide							400
Color (PCU)							_
Nitrate-Nitrite (as N)							_
Sulfide (as S)							_
Sulfite (as SO3)							_
Surfactants							_
Boron, total							20
Cobalt, total							0.3
Iron, total							7
Magnesium, total							20
Manganese, total							0.5
Molybdenum, total							1
Tin, total							5
Titanium, total							30

## **TABLE 7 (Instructions, Page 60)**

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

□ N/A

### **Table 7 for Applicable Industrial Categories**

Ind	ustrial Category	40 CFR Part		latiles ole 8	Aci Tal	ds ole 9	Nei	ses/ utrals ble 10		sticides ble 11
	Adhesives and Sealants			Yes		Yes		Yes	No	
	Aluminum Forming	467		Yes		Yes		Yes	No	
	Auto and Other Laundries			Yes		Yes		Yes		Yes
	Battery Manufacturing	461		Yes	No			Yes	No	
	Coal Mining	434	No		No		No		No	
	Coil Coating	465		Yes		Yes		Yes	No	
	Copper Forming	468		Yes		Yes		Yes	No	
	Electric and Electronic Components	469		Yes		Yes		Yes		Yes
	Electroplating	413		Yes		Yes		Yes	No	
	Explosives Manufacturing	457	No			Yes		Yes	No	
	Foundries			Yes		Yes		Yes	No	
	Gum and Wood Chemicals - Subparts A,B,C,E	454		Yes		Yes	No		No	
	Gum and Wood Chemicals - Subparts D,F	454		Yes		Yes		Yes	No	
	Inorganic Chemicals Manufacturing	415		Yes		Yes		Yes	No	
	Iron and Steel Manufacturing	420		Yes		Yes		Yes	No	
	Leather Tanning and Finishing	425		Yes		Yes		Yes	No	
	Mechanical Products Manufacturing			Yes		Yes		Yes	No	
	Nonferrous Metals Manufacturing	421,471		Yes		Yes		Yes		Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435		Yes		Yes		Yes	No	
	Ore Mining - Subpart B	440	No			Yes	No		No	
	Organic Chemicals Manufacturing	414		Yes		Yes		Yes		Yes
	Paint and Ink Formulation	446,447		Yes		Yes		Yes	No	
	Pesticides	455		Yes		Yes		Yes		Yes
	Petroleum Refining	419		Yes	No		No		No	
	Pharmaceutical Preparations	439		Yes		Yes		Yes	No	
	Photographic Equipment and Supplies	459		Yes		Yes		Yes	No	
	Plastic and Synthetic Materials Manufacturing	414		Yes		Yes		Yes		Yes
	Plastic Processing	463		Yes	No		No		No	
	Porcelain Enameling	466	No		No		No		No	
	Printing and Publishing			Yes		Yes		Yes		Yes
	Pulp and Paperboard Mills - Subpart C	430		*		Yes		*		Yes
	Pulp and Paperboard Mills - Subparts F, K	430		*		Yes		*		*
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430		Yes		Yes		*		*
	Pulp and Paperboard Mills - Subparts I, J, L	430		Yes		Yes		*		Yes
	Pulp and Paperboard Mills - Subpart E	430		Yes		Yes		Yes		*
	Rubber Processing	428		Yes		Yes		Yes	No	
	Soap and Detergent Manufacturing	417		Yes		Yes		Yes	No	
	Steam Electric Power Plants	423		Yes		Yes	No		No	
	Textile Mills (Not Subpart C)	410		Yes		Yes		Yes	No	
	Timber Products Processing	429		Yes		Yes		Yes		Yes

<sup>\*</sup> Test if believed present.

## TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
[Tetrachloroethene]  Toluene  1,2-Trans-dichloroethylene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

<sup>\*</sup> Indicate units if different from µg/L.

Table 9 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

<sup>\*</sup> Indicate units if different from µg/L.

Table 10 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

<sup>\*</sup> Indicate units if different from µg/L.

Table 11 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
	1	1	1	1	1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

<sup>\*</sup> Indicate units if different from µg/L.

Attachment: Click to enter text.

#### TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- $\square$  2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- □ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3
- □ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- □ hexachlorophene (HCP) CASRN 70-30-4
- □ None of the above

Description: Click to enter text.

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

□ Yes □ No

Description: Click to enter text.

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8- PeCDD	1.0					50
2,3,7,8- HxCDDs	0.1					50
1,2,3,4,6,7,8- HpCDD	0.01					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8- PeCDF	0.03					50
2,3,4,7,8- PeCDF	0.3					50
2,3,7,8- HxCDFs	0.1					50
2,3,4,7,8- HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						
Γ <b>ABLE 13 (HA</b> Complete Table 60-61)		SSTANCES) ed for all external	l <b>outfalls</b> as di	rected below. (In	structions, Pag	es

discharge?

Yes  $\square$ No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

Yes □ No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab							
Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method	

# Worksheet 4.0 Receiving Waters

## INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet is required for all TPDES permit applications.

## Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a.	There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.
	□ Yes ⊠ No
	If <b>no</b> , stop here and proceed to Item 2. If <b>yes</b> , provide the following information:
	1. The legal name of the owner of the drinking water supply intake: <u>Click to enter text.</u>
	2. The distance and direction from the outfall to the drinking water supply intake: <u>Click to enter text.</u>
b.	Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.
	☐ Check this box to confirm the above requested information is provided.
It	em 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)
	the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to em 3.
a.	Width of the receiving water at the outfall: <u>1,475</u> feet
b.	Are there oyster reefs in the vicinity of the discharge?
	□ Yes ⊠ No
	If <b>yes</b> , provide the distance and direction from the outfall(s) to the oyster reefs: <u>Click to enter text.</u>
c.	Are there sea grasses within the vicinity of the point of discharge?
	□ Yes ⊠ No
	If <b>yes</b> , provide the distance and direction from the outfall(s) to the grasses: $\frac{\text{Click to enter}}{\text{text.}}$
It	em 3. Classified Segment (Instructions, Page 80)
Th	ne discharge is/will be directly into (or within 300 feet of) a classified segment.
If ·	■ Yes □ No  ves. stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

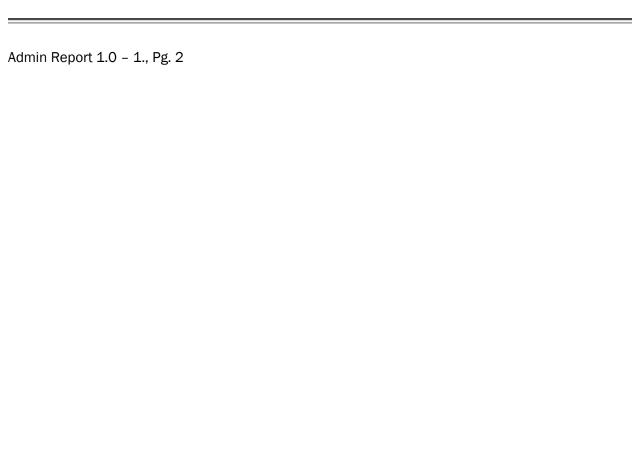
If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

## Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

		(Instructions, Page 80)
a.	Nam	e of the immediate receiving waters: <u>Click to enter text.</u>
b.	Chec	k the appropriate description of the immediate receiving waters:
	_	Lake or Pond
	•	Surface area (acres): Click to enter text.
	•	Average depth of the entire water body (feet): Click to enter text.
	•	Average depth of water body within a 500-foot radius of the discharge point (feet): <u>Click to enter text.</u>
		Man-Made Channel or Ditch
		Stream or Creek
		Freshwater Swamp or Marsh
		Tidal Stream, Bayou, or Marsh
		Open Bay
		Other, specify:
		<b>Made Channel or Ditch</b> or <b>Stream or Creek</b> were selected above, provide responses to c – 4.g below:
с.		existing discharges, check the description below that best characterizes the area ream of the discharge.
		<b>new discharges</b> , check the description below that best characterizes the area <b>nstream</b> of the discharge.
		Intermittent (dry for at least one week during most years)
		Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)
		Perennial (normally flowing)
		ek the source(s) of the information used to characterize the area upstream (existing narge) or downstream (new discharge):
		USGS flow records
		personal observation
		historical observation by adjacent landowner(s)
		other, specify: <u>Click to enter text.</u>
d.		the names of all perennial streams that join the receiving water within three miles natream of the discharge point: <u>Click to enter text.</u>
e.	(e.g.,	receiving water characteristics change within three miles downstream of the discharge natural or man-made dams, ponds, reservoirs, etc.).
		☑ Yes □ No

	If y	es, describe how: Click to enter text.		
f.	tim	neral observations of the water body during e of observation: The water body was influe ervations.		
		□ Yes □ No		
	If y	es, describe how: Click to enter text.		
It	em	5. General Characteristics of Page 81)	Wa	ater Body (Instructions,
a.		he receiving water upstream of the existing uenced by any of the following (check all the		
		oil field activities		urban runoff
		agricultural runoff		septic tanks
		upstream discharges		other, specify: <u>Click to enter text.</u>
b.	Use	s of water body observed or evidence of suc	ch us	es (check all that apply):
		livestock watering		industrial water supply
		non-contact recreation		irrigation withdrawal
		domestic water supply		navigation
		contact recreation		picnic/park activities
		fishing		other, specify: <u>Click to enter text.</u>
c.		cription which best describes the aesthetics a (check only one):	of tl	ne receiving water and the surrounding
		<b>Wilderness:</b> outstanding natural beauty; us clarity exceptional	sually	y wooded or un-pastured area: water
		<b>Natural Area:</b> trees or native vegetation co- fields, pastures, dwellings); water clarity d		- ·
		<b>Common Setting:</b> not offensive, developed turbid	l but	uncluttered; water may be colored or
		<b>Offensive:</b> stream does not enhance aesthe areas; water discolored	etics;	cluttered; highly developed; dumping

# Attachment A Copy of Fee Submittal



6/13/25, 10:14 AM TCEQ ePay

Questions or Comments >>

Shopping Cart Select Fee Search Transactions Sign Out

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

#### **Transaction Information**

**Trace Number:** 582EA000672274

Date: 06/13/2025 10:14 AM

Payment Method: CC - Authorization 0000038106

ePay Actor: DANIEL BISSONNETTE
Actor Email: dmbissonnette@eprod.com

**IP:** 50.58.14.5

TCEQ Amount: \$350.00 Texas.gov Fee: \$8.13 Texas.gov Price: \$358.13\*

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

#### **Payment Contact Information**

Name: DANIEL BISSONNETTE

Company: ENTERPRISE PRODUCTS OPERATING LLC

Address: 1100 LOUISIANA STREET, HOUSTON, TX 77002

Phone: 713-381-3669

#### Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount	
770826	WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT		\$300.00	
770827	30 TAC 305.53B WQ NOTIFICATION FEE	TCEQ Amount:	\$50.00 \$350.00	



Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

Site Help | Disclaimer | Web Policies | Accessibility | Our Compact with Texans | TCEQ Homeland Security | Contact Us Statewide Links: Texas.gov | Texas Homeland Security | TRAIL Statewide Archive | Texas Veterans Portal

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### Attachment B Core Data Form

Admin Report 1.0 - 9.b., Pg. 11



### **TCEQ Core Data Form**

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

### SECTION I: General Information

1. Reason for	Submissi	on (ij oti	ner is спескеа	piease aescrii	oe in space pro	oviaea.,	'					
☐ New Pern	nit, Registra	tion or A	Authorization (	Core Data Foi	m should be s	ubmitte	ed with	the progi	ram application.)			
Renewal (	Renewal (Core Data Form should be submitted with the renewal form)  Other  Major Amendment											
2. Customer	Reference	Numbe	er (if issued)		Follow this li		_	3. Reg	gulated Entity Re	ference	Number (if i	ssued)
CN 6032112	77				Central Re			RN 1	.02580834			
SECTION	<u> </u>	Cus <sup>.</sup>	<u>tomer</u>	Inforr	<u>nation</u>							
4. General Cu	ıstomer In	format	ion	5. Effective	Date for Cu	stome	r Info	mation	<b>Updates</b> (mm/dd/	′уууу)		
☐ New Custor	ner		□υ	pdate to Custo	omer Informat	ion		Chan	ige in Regulated En	tity Owne	ership	
☐Change in Le	egal Name (	Verifiabl	e with the Tex	as Secretary o	of State or Texa	as Com	ptroller					
The Custome	r Name su	bmitte	d here may b	be updated o	utomaticall	y base	d on v	vhat is c	urrent and active	with th	e Texas Seci	etary of State
(SOS) or Texa			-	•	·							, ,
6. Customer	Legal Nam	e (If an i	individual, prii	nt last name fi	rst: eg: Doe, Jo	ohn)			If new Customer,	enter pre	vious Custom	er below:
Enterprise Proc	ducts Opera	ting LLC										
7. TX SOS/CP	A Filing N	umber		8. TX State	<b>Tax ID</b> (11 di	gits)			9. Federal Tax ID 10. DUNS Numbe			Number (if
0800838920				126043053	12604305396				(9 digits)		applicable)	
11. Type of C	ustomer:		□ Corporat	ion			[	Individ	Individual Partnership: General Limited			eral Limited
Government:	City 🔲 C	County [	Federal 🗌	Local 🗌 Stat	e 🗌 Other		[	Sole Pi	Proprietorship  Other:			
12. Number o	of Employe	ees							13. Independe	ntly Ow	ned and Ope	erated?
0-20	21-100	] 101-2!	50 🗌 251-	500 🛭 501	and higher				⊠ Yes	☐ No		
14. Customer	Role (Prop	oosed or	Actual) – as is	t relates to the	Regulated En	itity list	ed on t	his form.	Please check one of	f the follo	wing	
☐ Owner ☐ Occupation	al Licensee		erator esponsible Par		wner & Opera VCP/BSA App				Other:			
15. Mailing	P.O. Box 4	1324										
Address:												
Audiess.	City	Housto	on		State	TX		ZIP	77210		ZIP + 4	4324
16. Country I	Mailing Inf	ormatio	on (if outside	USA)	•		17. E	-Mail A	ddress (if applicable	le)		
							environmental@eprod.com					

TCEQ-10400 (11/22) Page 1 of 3

(713)381-6595						( ) -		
SECTION III: F	Regula	ated Ent	tity Inforn	nation				
21. General Regulated En	tity Informa	ation (If 'New Re	gulated Entity" is selec	cted, a new pe	ermit applica	tion is also required.)		
☐ New Regulated Entity [	Update to	Regulated Entity	Name  Update	to Regulated I	Entity Inform	ation		
The Regulated Entity Nan as Inc, LP, or LLC).	ne submitte	ed may be upda	nted, in order to me	et TCEQ Cor	e Data Star	ndards (removal of o	rganization	al endings such
22. Regulated Entity Nam	<b>e</b> (Enter nam	ne of the site whe	re the regulated action	n is taking pla	ce.)			
Enterprise Products Operating	g LLC							
23. Street Address of	15602 Jacir	ntoport Boulevard	I					
the Regulated Entity:								
(No PO Boxes)	City	Houston	State	TX	ZIP	77015	ZIP + 4	
24. County	Harris	1	1	1	•	1	1	1
		If no Stre	et Address is provi	ded, fields 2	5-28 are re	quired.		
25. Description to								
Physical Location:								
26. Nearest City						State	Nea	rest ZIP Code
Latitude/Longitude are re used to supply coordinate 27. Latitude (N) In Decima	s where no	-	-	accuracy).		rds. (Geocoding of to	he Physical	Address may be
			Cocondo			Minutes		Casanda
Degrees 29	Minutes	44	Seconds 24	Degre	95	Williates 7		Seconds 54
29. Primary SIC Code	30	Secondary SIC				22.500	ondary NAIC	
(4 digits)		ligits)	Couc	31. Primar (5 or 6 digit	ry NAICS Co	(5 or 6 di	-	.s code
4491								
33. What is the Primary B	susiness of t	this entity? (D	o not repeat the SIC o	r NAICS descri	iption.)			
Natural Gas Liquid product tra	ansfer faci							
34. Mailing	P.O. Box 4	324						
Address:								
	City	Houston	State	тх	ZIP	77210	ZIP + 4	
35. E-Mail Address:	env	ironmental@epr	od.com			1		1
36. Telephone Number			27 5-4	0-1-	20 5	ax Number (if applica	h(a)	
So. relephone rumber			37. Extension or	Code	38. F	ax ivailibei (ij applica	bie)	

19. Extension or Code

20. Fax Number (if applicable)

18. Telephone Number

TCEQ-10400 (11/22) Page 2 of 3

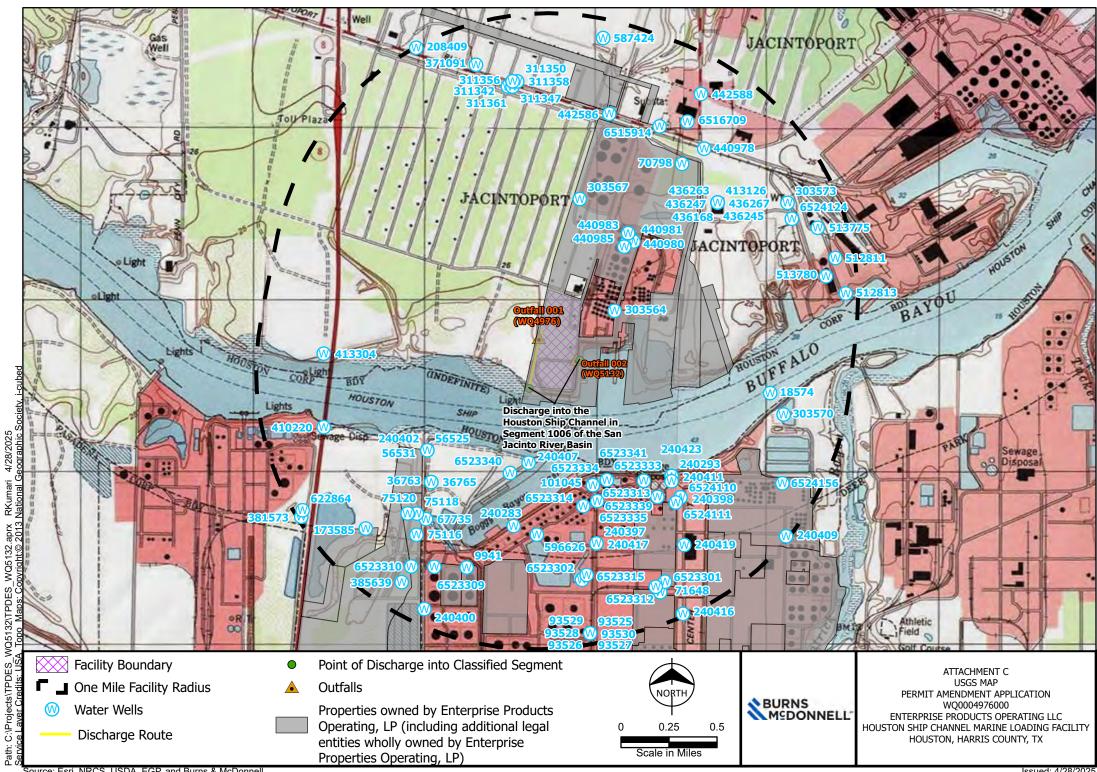
☐ Dam Safety		Districts	Edwards Aquifer		Emissions Inv	ventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid	Waste	New Source Review Air	OSSF		Petroleum St	orage Tank	□ PWS
Sludge		Storm Water	☐ Title V Air		Tires		Used Oil
☐ Voluntary Clean	un		☐ Wastewater Agricul	ture $\Box$	Water Rights		Other:
		WQ4976					
SECTION I	V: Pr	ı eparer Int	formation				
<b>40. Name:</b> Mid	chael Chasta	nt		41. Title:	Staff Engine	er, Environmen	tal
42. Telephone Nur	mber	43. Ext./Code	44. Fax Number	45. E-Mail <i>i</i>	Address		
(713)381-6617			( ) -	mdchastant1@eprod.com			
SECTION	√: Au	thorized S	<u>Signature</u>				
6. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority of submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.							
Company: Enterprise Products Operating LLC			LLC	Job Title: Senior Director			
Name (In Print):	Bradley J.	Cooley				Phone:	(713)381- <b>6595</b>
Signature:						Date:	

TCEQ-10400 (11/22) Page 3 of 3

## Attachment C USGS Map

Map, Cross Reference List, Mailing List

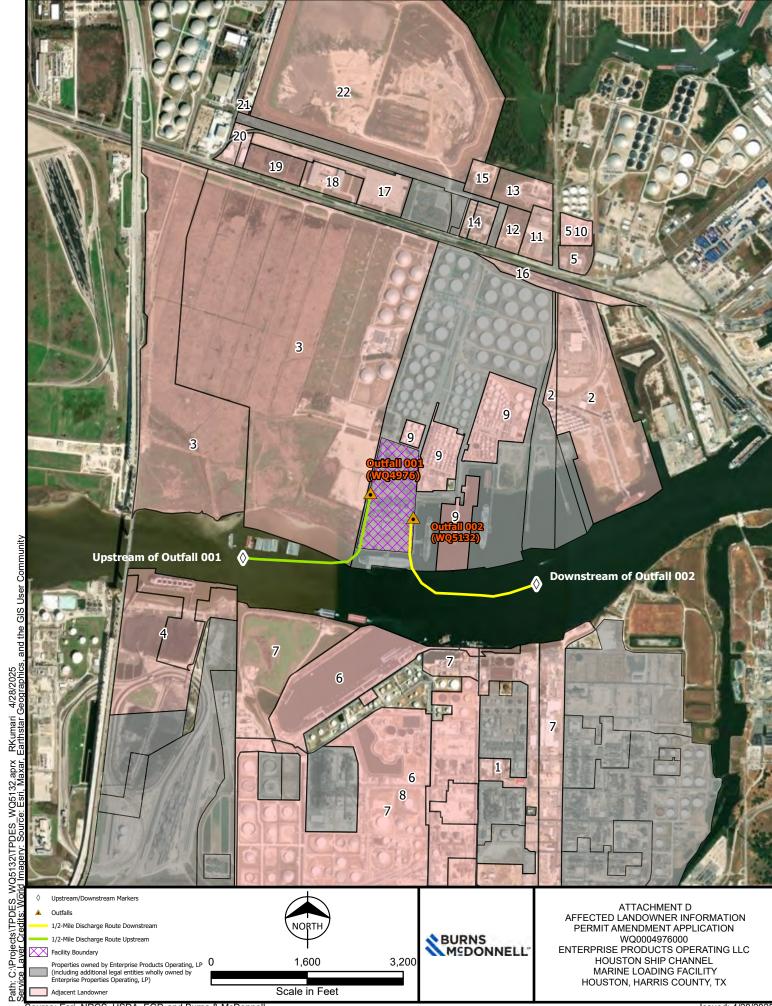
Admin Report 1.1 - 1.a., 1.b., 1.c., Pg. 14



Issued: 4/28/2025

### Attachment D Adjacent Landowners Map

Admin Report 1.1 – 2., Pg. 15



MAPID	OWNER NAME	ADDRESS	CITY	STATE	ZIP CODE
1	DEER PARK REFINING LTD PTR	5600 HIGHWAY 225	DEER PARK	TX	77536
2	STOLT NIELSEN INC	15635 JACINTOPORT BLVD	HOUSTON	TX	77015
3	PORT OF HOUSTON AUTHORITY	15500 JACINTOPORT BLVD	HOUSTON	TX	77015
4	KINDER MORGAN PETCOKE LP	4207 LA PORTE FWY	HOUSTON	TX	77536
5	HFOTCO LLC	1201 S SHELDON RD	HOUSTON	TX	77015
6	SHELL OIL CO	5600 LA PORTE FWY	HOUSTON	TX	77536
7	DEER PARK REFINNING LP	5600 HIGHWAY 225	DEER PARK	TX	77536
8	OXY VINYLS LP	5600 HIGHWAY 225	HOUSTON	TX	77536
9	STOLT TERMINAL HOUSTON INC	15602 JACINTOPORT BLVD	HOUSTON	TX	77015
10	PETROMAX REFINING CO LLC	1519 S SHELDON RD	HOUSTON	TX	77015
11	BROADSTONE IKGTX LLC	PO BOX 310	CHANNELVIEW	TX	77015
12	CENTERPOINT ENERGY HOU ELE	0 JACINTOPORT BLVD	HOUSTON	TX	77015
13	SOUTH SHELDON ROAD LP	1414 SOUTH SHELDON RD	HOUSTON	TX	77015
14	STOLT-NIELSEN TRANSPORTATION GROUP INC	15635 JACINTOPORT BLVD	HOUSTON	TX	77015
15	ETOCO LP	333 CLAY ST STE 3650	HOUSTON	TX	77015
16	STOLTHAVEN HOUSTON INC	15602 JACINTOPORT BLVD	HOUSTON	TX	77015
17	CONTANDA JACINTOPORT STEEL 2 LLC	1111 BAGBY ST FL 18	HOUSTON	TX	77015
18	BESHERT PARTNERS LLC	6000 JENSEN DR	HOUSTON	TX	77015
19	STEIN INDUSTRIAL PARTNERS II LLC	6000 JENSEN DR	HOUSTON	TX	77015
20	JOHN W STONE OIL DISTRIBUTOR LLC	1601 BELLE CHASE HWY	HOUSTON	TX	77015
21	WEDTECH INC	2222 APPELT DR	HOUSTON	TX	77015
22	TDWP TERMINALS 2 LLC	811 MAIN ST STE 2800	HOUSTON	TX	77015

DEER PARK REFINING LTD PTR 5600 HIGHWAY 225 HOUSTON, TX 77015  KINDER MORGAN PETCOKE LP 4207 LA PORTE FWY HOUSTON, TX 77015	STOLT NIELSEN INC 15635 JACINTOPORT BLVD HOUSTON, TX 77015  HFOTCO LLC 1201 S SHELDON RD HOUSTON, TX 77015	PORT OF HOUSTON AUTHORITY 15500 JACINTOPORT BLVD HOUSTON, TX 77015  SHELL OIL CO 5600 LA PORTE FWY HOUSTON, TX 77536
DEEP PARK REFINING LP	OXY VINYLS LP	STOLT TERMINAL HOUSTON INC
5600 HIGHWAY 225	5600 HIGHWAY 225	15602 JACINTOPORT BLVD
DEER PARK, TX 77536	HOUSTON, TX 775	HOUSTON, TX 77015
PETROMAX REFINING CO LLC	BROADSTONE IKGTX LLC	CENTERPOINT ENERGY HOU ELE
1519 S SHELDON RD	PO BOX 310	0 JACINTOPORT BLVD
HOUSTON, TX 77015	CHANNELVIEW, TX 77015	HOUSTON, TX 77015
SOUTH SHELDON ROAD LP 1414 SOUTH SHELDON RD HOUSTON, TX 77015	STOLT-NIELSEN TRANSPORTATION GROUP INC 15635 JACINTOPORT BLVD HOUSTON, TX 77015	ETOCO LP 333 CLAY ST STE 3650 HOUSTON, TX 77015
STOLTHAVEN HOUSTON INC	CONTANDA JACINTOPORT STEEL 2 LLC	BESHERT PARTNERS LLC
15602 JACINTOPORT BLVD	1111 BAGBY ST FL 18	6000 JENSEN DR
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77015
STEIN INDUSTRIAL PARTNERS II LLC	JOHN W STONE OIL DISTRIBUTOR LLC	WEDTECH INC
6000 JENSEN DR	1601 BELLE CHASE HWY	2222 APPELT DR
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77015
TDWP TERMINALS 2 LLC 811 MAIN ST STE 2800 HOUSTON, TX 77015		

### Attachment E Original Photographs

SPIF 8., Pg. 17



Photo 1

Outfall 001 (WQ4976), upstream facing north toward the Enterprise property. Culverts convey stormwater from the adjacent industrial complex to the fence/beginning of the ditch. Outfall 001 is piped to this location.



Photo 2
Outfall 001 (WQ4976), close up photo of the culvert.



Photo 3

Outfall 001 (WQ4976), at the point of discharge where the drainage ditch enters into the Houston Ship Channel, facing north.



Photo 4
Outfall 002 (WQ5132), at the discharge pipe into the Houston Ship Channel, facing east.

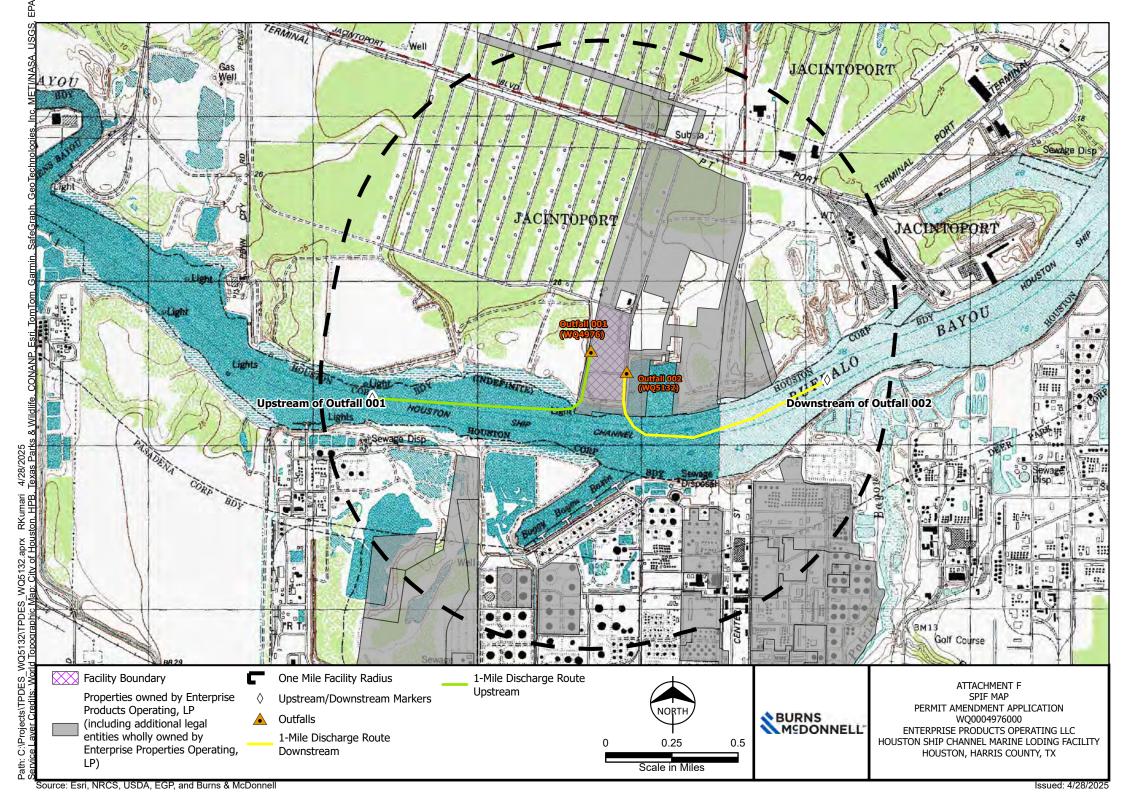


Photo 4
Outfall 002 (WQ5132), at the discharge pipe into the Houston Ship Channel, facing west.



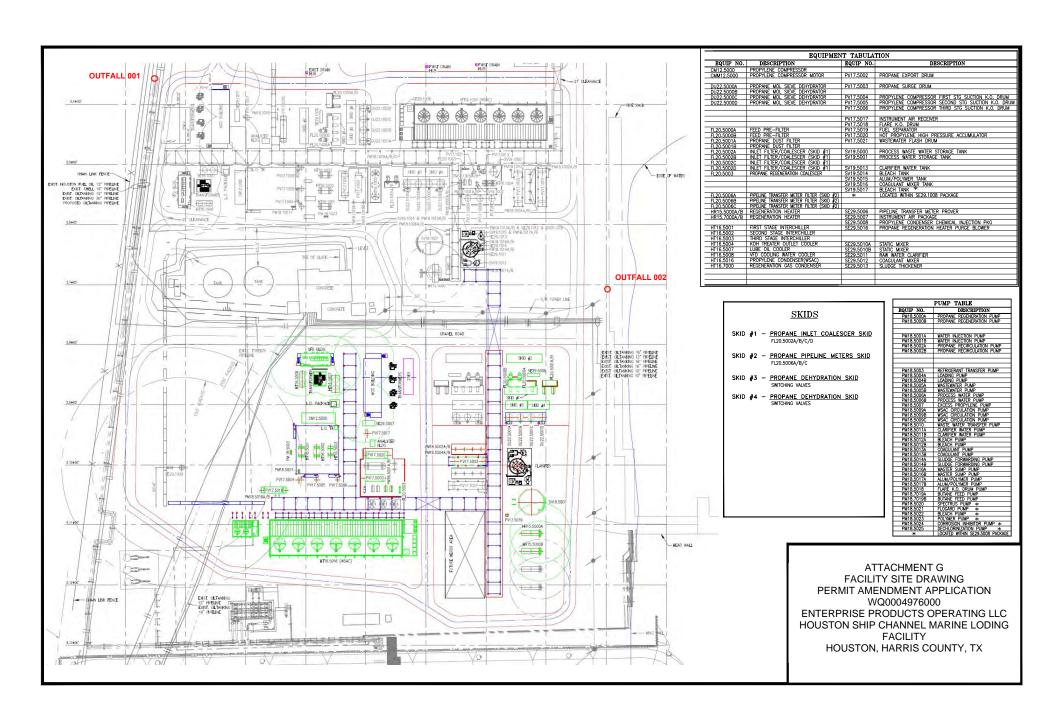
### Attachment F SPIF Map

Tech Report 1.0 - 1.e., Pg. 2



# Attachment G Facility Layout Drawings

Tech Report 1.0 - 2.b., Pg. 3



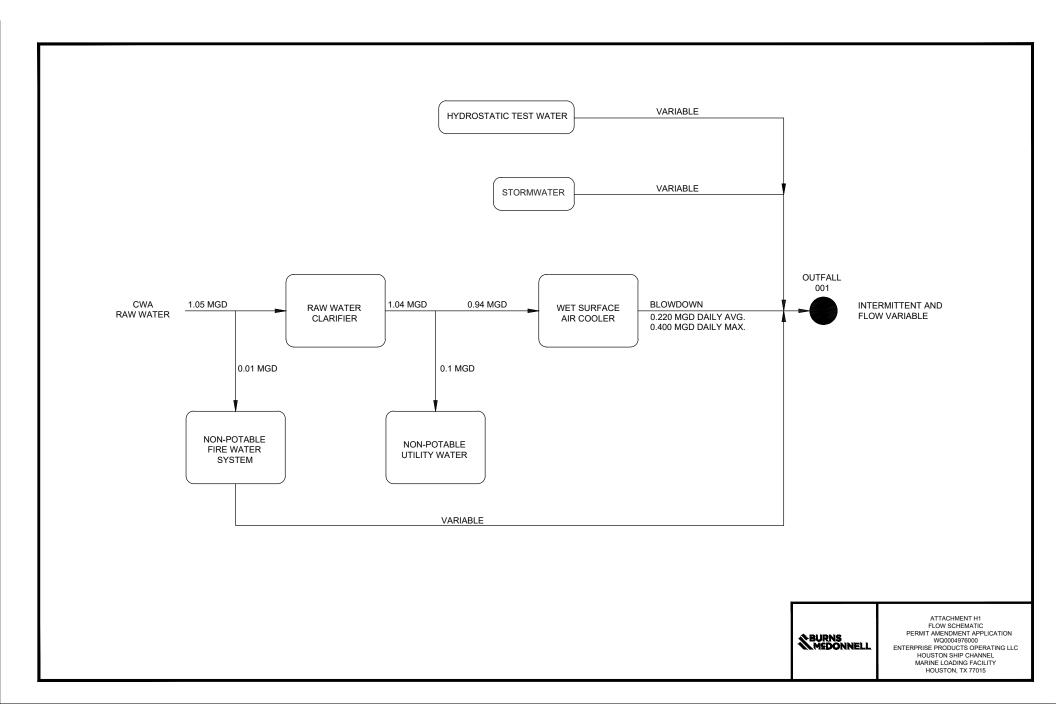
# Attachment H Facility Outfall Locations and Flow Schematics

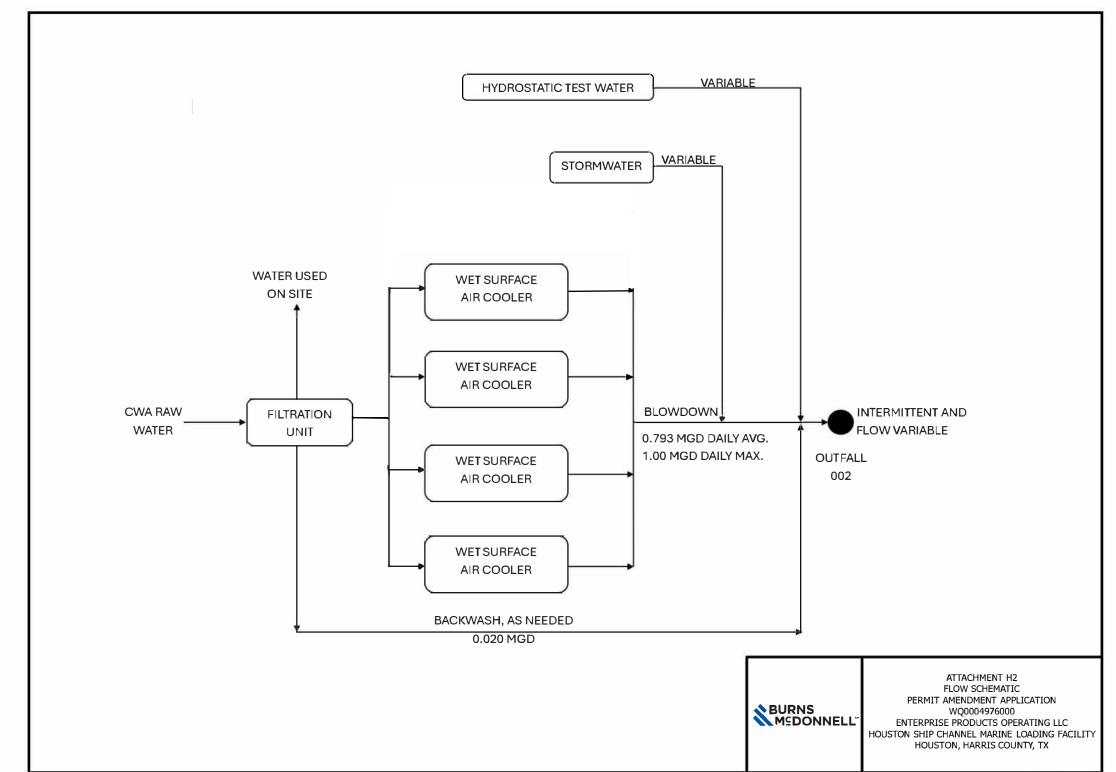
Tech Report 1.0 – 5.c., Pg. 9		



Source: Esri, NRCS, USDA, EGP, and Burns & McDonnell

Issued: 4/21/2025





Issued: 4/18/2025

# Enterprise Products Operating LLC Houston Ship Channel Marine Loading Facility Attachment I – Chemical Additives

Enterprise Products Operating LLC (Enterprise) owns and operates the Houston Ship Channel Marine Facility at 15602 Jacintoport Boulevard and Sam Houston Tollway, in the City of Houston, Harris County, Texas (Facility). With this application for amendment with renewal for TPDES Permit No. WQ00049760000 Enterprise is including the attached Safety Data Sheets (SDS) for chemical additives currently utilized in raw water treatment, and boiler and cooling water systems at the Facility. Chemical additives may be changed depending on conditions and operations. If other additives are utilized at the Facility the additives will likely be like those currently in use and Enterprise will provide copies of those SDS to TCEQ.

All chemical additives will be utilized in accordance with the manufacturer's recommendations.

Chemical Additive	Use	Outfall(s)	Dosage Rate (ppm)
ChemTreat CL456	Cooling Water Treatment	001,002	2-6
LIQUICHLOR® 12.5%	Industrial chemical	001, 002	2-6
ChemTreat P893L	Water Clarification Agent	001, 002	5-15
ChemTreat CL4132	Cooling Water Treatment	001,002	5-15
ChemTreat CL5644	Cooling Water Treatment	001,002	70-80
ChemTreat BL124	Cooling Water Treatment	001,002	5
ChemTreat SULFURIC ACID 93%	Industrial Chemical	001, 002	100-140
ChemTreat P813E	Water Clarification Agent	001,002	0.5-1

NOTES: Dosages and MSDS sheets are provided for each additive currently in use in WSAC units. Chemical additives may be changed depending on conditions and operations. However, new additives are likely to be like those currently in use, and all additives will be utilized in accordance with the manufacturer's recommendations. If new chemical additives are selected, copies of the MSDS sheets will be provided to the commission.





### SAFETY DATA SHEET

#### Section 1. Chemical Product and Company Identification

Product Name: ChemTreat CL456

**Product Use:** Cooling Water Treatment

Supplier's Name: ChemTreat, Inc.

**Emergency Telephone Number:** (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

**Telephone Number for Information:** (800)648–4579 **Date of SDS:** July 18, 2019 **Revision Date:** July 18, 2019

Revision Number: 19071801AN

#### Section 2. Hazard(s) Identification

Signal Word: None

GHS Classification(s): Non-Hazardous Substance

Hazard Statement(s): Non-Hazardous Substance

**Precautionary Statement(s):** No significant health risks are expected from exposures under

normal conditions of use.

**Prevention:** None.

Response: None.

Storage: None.

**Disposal:** None.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Hazards Not Otherwise** 

Classified:

None.





#### Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Components not listed are either non hazardous or in concentration of	N/A	N/A
less than 1%		

Comments If chemical identity and/or exact percentage of composition has been

withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a poison center or doctor/physician if you feel

unwell.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye

irritation persists, get medical advice/attention.

**Skin:** Wash with plenty of soap and water. Call a poison center or

doctor/physician if you feel unwell.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician if you feel unwell.

Most Important Symptoms: N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

**Necessary:** 

N/A

### Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

**Suitable Extinguishing Media:** Use extinguishing media suitable to surrounding fire.

**Specific Hazards Arising from** 

the Chemical:

None known.





**Protective Equipment:** If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

#### Section 6. Accidental Release Measures

**Personal Precautions:** Use appropriate Personal Protective Equipment (PPE).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: None.

#### Section 7. Handling and Storage

Handling: Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only.

Store above Freeze Point.

#### Section 8. Exposure Controls/Personal Protection

#### **Exposure Limits**

Component	Source	Exposure Limits
Components not listed are either non hazardous or in	N/E	N/E
concentration of less than 1%		

**Engineering Controls:** Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.





#### **Personal Protection**

**Eyes:** Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

**Skin:** Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

**Respiratory:** If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.

#### Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, Colorless, Clear

Specific Gravity: 1.005 @ 20°C

pH: 7.0 @ 20°C, 100.0%

Freezing Point: 37°F
Flash Point: >200°F
Odor: Mild
Melting Point: N/A
Initial Boiling Point and Boiling Range: 212°F

Solubility in Water:CompleteEvaporation Rate:N/DVapor Density:N/DMolecular Weight:N/D

Viscosity: <100 CPS @ 20°C

Flammability (solid, gas):

Flammable Limits:

Autoignition Temperature:

N/A

Density: 8.38 LB/GA

Vapor Pressure:N/D% VOC:<1</td>Odor ThresholdN/Dn-octanol Partition CoefficientN/DDecomposition TemperatureN/D





## Section 10. Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various** 

**Substances:** 

Strong oxidizers.

**Hazardous Decomposition** 

**Products:** 

None known.

**Possibility of Hazardous** 

Reactions:

None known.

Reactivity: N/D

Conditions To Avoid: N/D

## Section 11. Toxicological Information

## **Acute Toxicity**

Chemical Name	Exposure	Type of Effect	Concentration	Species
N/D	N/D	N/D	N/D	N/D

## **Carcinogenicity Category**

Component	Source	Code	Brief Description
Components not listed are either non hazardous or in	N/E	N/E	N/E
concentration of less than 1%			

Likely Routes of Exposure: N/D

**Symptoms** 

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D





Serious Eye Damage/Eye

Irritation:

N/D

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental

**Toxicity:** 

N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D

Repeated Exposure: N/D

**Aspiration Hazard:** N/D

Comments: None.

## Section 12. Ecological Information

## **Ecotoxicity**

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	8.9 mg/l
Fathead Minnow	96h	LC50	10.8 mg/l

Persistence and

**Biodegradability:** 

N/D

**Bioaccumulative Potential:** N/D

Mobility In Soil: N/D

Other Adverse Effects: N/D

Comments: None.





## Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

## Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
IMDG	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
ICAO	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
TDG	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			

Note: N/A

## Section 15. Regulatory Information

**Inventory Status** 

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

**Federal Regulations** 

**SARA Title III Rules** 

**Sections 311/312 Hazard Classes** 

Fire Hazard:

Reactive Hazard:

No
Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

No





## **Other Sections**

	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Components not listed are either non hazardous or in	N/A	N/A	N/A
concentration of less than 1%			

Comments: None.

## **State Regulations**

California Proposition 65: None known.

**Special Regulations** 

Component	States
Components not listed are either non hazardous or in	None.
concentration of less than 1%	

## **Compliance Information**

NSF: N/A

Food Regulations: N/A

**KOSHER:** This product has not been evaluated for Kosher approval.

**Halal:** This product has not been evaluated for Halal approval.

FIFRA: N/A

Other: None

Comments: None.

## Section 16. Other Information

## **HMIS Hazard Rating**

1
0
0
X





Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.

#### **Abbreviations**

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: July 18, 2019

## Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.



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#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : LIQUICHLOR® 12.5% SOLUTION

Recommended use of the chemical and restrictions on use

Recommended use : refer to EPA registered label for specific uses

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.

Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515

United States of America (USA)

**Emergency telephone number:** 

Transport North America: CHEMTREC (1-800-424-9300) CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department

E-mail: SDSNA@univarsolutions.com SDS Requests: 1-855-429-2661 Website: www.univarsolutions.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Corrosive to metals : Category 1

Skin corrosion : Category 1

Serious eye damage : Category 1

**GHS label elements** 

Hazard pictograms :

工事

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention**:

P234 Keep only in original container. P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection. Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/ doctor.

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/ doctor.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

Storage

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner

liner.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

### **Hazardous components**

CAS-No.	Chemical name	Weight percent
7681-52-9	Sodium hypochlorite	12.5
1310-73-2	Sodium hydroxide	0 - 5

Actual concentration is withheld as a trade secret

Any Concentration shown as a range is due to batch variation.

Synonyms : Bleach,

## **SECTION 4. FIRST AID MEASURES**

General advice : Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Take victim immediately to hospital.

Move to fresh air.

If breathing has stopped, apply artificial respiration.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Remove contaminated clothing. If irritation develops, get med-

ical attention.

Burns must be treated by a physician.

In case of eye contact : In case of eye contact

Immediately flush eye(s) with plenty of water.

Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

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If easy to do, remove contact lens, if worn.

If eye irritation persists, consult a specialist.

Take victim immediately to hospital.

If swallowed : Take victim immediately to hospital.

Do NOT induce vomiting. Rinse mouth with water.

If victim is fully conscious, give a cupful of water.

If a person vomits when lying on his back, place him in the

recovery position.

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO2)

Foam Dry powder

Unsuitable extinguishing

media

Specific hazards during fire-

fighting

: High volume water jet

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

: Neutralise with acid.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.

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Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7681-52-9	Sodium hypochlorite	STEL	2 mg/m3	US WEEL
1310-73-2	Sodium hydroxide	С	2 mg/m3	ACGIH
		С	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		С	2 mg/m3	OSHA P0
		С	2 mg/m3	CAL PEL

## Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid Colour : clear

yellow

Odour : Chlorine

Odour Threshold : No data available

pH : 11.5 - 13

Freezing Point (Melting : -20 - -15 °C (-4 - 5 °F)

point/freezing point)

Boiling Point () : 230 °F (230 °F)

Decomposition: Decomposition temperature

Flash point : Not Flammable

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 12 - 17.5 mmHg @ 20 °C (68 °F)

Relative vapour density : No data available Relative density : 1.17 @ 20 °C (68 °F)

Reference substance: (water = 1)

Density : 1.17 g/cm3

Solubility(ies)
Water solubility

Water solubility : completely soluble Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available Thermal decomposition : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable

Possibility of hazardous reac- : No hazards to be specially mentioned.

tions

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Acids

Combustible material Halogenated compounds

Metals metal salts Organic materials

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organic nitro compounds

Zinc

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Components: 7681-52-9:

Acute oral toxicity : LD50 (Rat, male): > 2,000 mg/kg

1310-73-2:

Acute oral toxicity : LD50 (Rabbit): 325 mg/kg

#### Skin corrosion/irritation

#### Components:

7681-52-9:

Species: Rabbit Result: Causes burns.

**1310-73-2:** Species: Rabbit

Result: Causes severe burns.

## Serious eye damage/eye irritation

#### **Components:**

7681-52-9:

Species: Rabbit

Result: Risk of serious damage to eyes.

**1310-73-2:** Species: Rabbit

Result: Risk of serious damage to eyes.

### Carcinogenicity

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.



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## STOT - single exposure

#### **Components:**

#### 7681-52-9:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### **Further information**

**Product:** 

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## **Components:**

7681-52-9:

Toxicity to fish : LC50 (Salmo gairdneri (Rainbow Fish)): 0.06 mg/l

Exposure time: 96 h

Test Type: flow-through test

LC50 (Pimephales promelas (fathead minnow)): 5.9 mg/l

Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.141 mg/l

Exposure time: 48 h

Test Type: flow-through test

EC50 (Ceriodaphnia dubia): 0.035 mg/l

Exposure time: 48 h

Test Type: flow-through test

Toxicity to algae : IC50: 0.023 mg/l

Exposure time: 7 d

Test Type: flow-through test

M-Factor (Acute aquatic tox-

icity)

: 10

Acute aquatic toxicity- As-

sessment

: Very toxic to aquatic life.

Chronic aquatic toxicity- As-

: Toxic to aquatic life with long lasting effects.

sessment

## Persistence and degradability

No data available

## Bioaccumulative potential

No data available

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### Mobility in soil

No data available

#### Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Uni-

var Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

#### **DOT (Department of Transportation):**

UN1791, Hypochlorite solutions, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

## IATA (International Air Transport Association):

UN1791, Hypochlorite solution, 8, III

#### **IMDG** (International Maritime Dangerous Goods):

UN1791, HYPOCHLORITE SOLUTION, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

#### **SECTION 15. REGULATORY INFORMATION**

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)

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## **Safety Data Sheet**

## **LIQUICHLOR® 12.5% SOLUTION**

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Sodium hypochlorite	7681-52-9	100	800
Sodium hydroxide	1310-73-2	1000	20000

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Corrosive to metals

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

7681-52-9 Sodium hypochlorite 1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

7681-52-9 Sodium hypochlorite 1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### Massachusetts Right To Know

7681-52-9 Sodium hypochlorite 1310-73-2 Sodium hydroxide

Pennsylvania Right To Know

7732-18-5 Water

7681-52-9 Sodium hypochlorite 1310-73-2 Sodium hydroxide

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other re-

productive harm.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

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NZIoC : Not in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

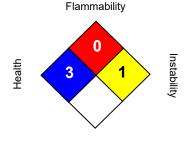
KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

#### **SECTION16. OTHER INFORMATION**

#### NFPA:



Special hazard

#### HMIS III:

HEALTH	3/
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 =Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

**Revision Date** : 02/01/2023

### Material number:

16179440, 16173035, 16172686, 16173104, 16185315, 16172598, 16146040, 16151002, 16149524, 16158615, 16145640, 16148059, 16144666, 16147989, 16163791, 16180800, 16164756, 16164592, 16164731, 16164730, 16203820, 16203821, 16203184, 16194505, 16158853, 16151253, 16149870, 16148071, 16148060, 16147684, 16145965, 16145895, 16145890, 16145584, 16145144, 16145142, 16145140, 16145138, 16145137, 16145133, 16145130, 16145079, 16159810, 16150495, 16149123, 16147041, 16145471, 16144665, 16145772, 16148183, 16145046, 16143737, 16135287, 16163624, 16148721, 16155765, 16158840, 16145484, 16166710, 16148748, 16148260, 16166763, 16166591, 16145834, 16166014, 16159793, 16162934, 16165524, 16165444, 16165066, 16137823, 16137455, 16137753, 16147687, 16144215, 16150496, 16149504, 16145673, 16149243, 16136536, 16160181, 16160290, 16144046, 16145139, 16150462, 16149046, 16149516, 16148083, 16150461, 16135216, 16156005, 16151878, 16151501, 16150223, 16149931, 16148522.



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16148259, 16147092, 16145877, 16145876

Key or le	Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of Govern- ment Industrial Hygienists	LD50	Lethal Dose 50%			
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level			
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency			
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health			
CNS	Central Nervous System	NTP	National Toxicology Program			
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals			
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level			
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration			
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration			
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit			
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances			
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic			
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act			
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit			
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.			
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value			
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average			
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act			
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials			
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System			
LC50	Lethal Concentration 50%					

# hemTreat

## SAFETY DATA SHEET

## 1. Identification

**Product identifier** P893L

Other means of identification

P893L Product code

Recommended use Water Clarification Agent

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Telephone** 

E-mail

ChemTreat Company name 5640 Cox Road **Address** 

Glen Allen, VA 23060

**United States** 

800-648-4579 Not available. 800-424-9300 **Emergency phone number** 

## 2. Hazard(s) identification

**Physical hazards** Corrosive to metals Category 1 Health hazards Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment,

long-term hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

**Hazard statement** May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic

life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Keep only in original container. Wash thoroughly after handling. Avoid release to the environment.

Wear eye protection/face protection. Wear protective gloves.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Category 2

Absorb spillage to prevent material damage.

Storage Store in corrosive resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 25% of the mixture consists of component(s) of unknown acute oral toxicity. 25% of the mixture

consists of component(s) of unknown acute dermal toxicity. 25% of the mixture consists of component(s) of unknown acute inhalation toxicity. 25% of the mixture consists of component(s)

of unknown acute hazards to the aquatic environment. 25% of the mixture consists of

component(s) of unknown long-term hazards to the aquatic environment.

Material name: P893L SDS US

P893L Version #: 01 Issue date: 03-10-2022

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Aluminum chloride hydroxide		12042-91-0	20 - < 30
Other components below repo	ortable levels		70 - < 80

### 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

**General information** 

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Move containers from fire area if you can do so without risk.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Material name: P893L SDS US Conditions for safe storage, including any incompatibilities Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Aluminum chloride hydroxide (CAS	TWA	1 mg/m3	Respirable fraction.
12042-91-0)			

## US NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Aluminum chloride hydroxide (CAS 12042-91-0)	TWA	2 mg/m3	

No biological exposure limits noted for the ingredient(s).

**Biological limit values** 

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety

shower.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Face shield is recommended. Eye/face protection

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** Clear Physical state Liquid. Liquid. Liquid **Form** Light Straw Color Odor Mild

**Odor threshold** Not available. 4 @ 20C

33.80 °F (1.00 °C) Melting point/freezing point

Initial boiling point and boiling

range

211.95 °F (99.97 °C) estimated

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available.

Material name: P893L

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity400 - 3000 cps

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

Pounds per gallon 9.81

**Specific gravity** 1.164 - 1.195 @ 20C

## 10. Stability and reactivity

**Reactivity** May be corrosive to metals.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Metals.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

## Information on toxicological effects

Acute toxicity Not known.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

Material name: P893L SDS US

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

**Test Results** Product **Species** P893L Aquatic Crustacea LC50 Ceriodaphnia dubia 1.148 mg/l, 48 hours Daphnia magna 2.56 mg/l, 48 hours 1.34 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 4.218 mg/l, 96 hours

4.1 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** Mobility in soil

No data available. No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the **Disposal instructions** 

> material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

Contaminated packaging

product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

In containers of 119 gallons capacity or less this product is not regulated by the DOT.

## IATA

**UN** number UN3264

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. **UN proper shipping name** 

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN3264

Material name: P893L SDS US **UN proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminum Chlorohydrate), MARINE

**POLLUTANT** 

Not established.

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant Yes **EmS** F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG



#### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Corrosive to metal categories

Skin corrosion or irritation

Serious eye damage or eye irritation

Material name: P893L SDS US

## SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US** state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### **Compliance Information: NSF Whitebook**

## **Compliance Information: NSF Standard 60**

This product is certified to NSF/ANSI Standard 60 for the following approved function:Coagulate/Flocculate. Maximum use rate for potable water - 20 mg/L. This product ships as NSF from:

09132 - Ashland VA 09131 - Nederland TX # 7 USA #25 USA



## 16. Other information, including date of preparation or last revision

**Issue date** 03-10-2022

Version # 01
HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 1 Personal protection: X

Material name: P893L SDS US

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

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Other information

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: P893L SDS US

# hemTreat

## SAFETY DATA SHEET

### 1. Identification

**Product identifier CL4132** 

Other means of identification

CL4132 Product code

Recommended use **Cooling Water Treatment** 

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

ChemTreat Company name 5640 Cox Road **Address** 

Glen Allen, VA 23060 **United States** 

**Telephone** 800-648-4579 E-mail Not available. 800-424-9300 **Emergency phone number** 

## 2. Hazard(s) identification

**Physical hazards** Corrosive to metals Category 1 Health hazards Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1 Reproductive toxicity Category 2 Category 3

**Environmental hazards** Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye **Hazard statement** 

damage. Suspected of damaging fertility or the unborn child. Harmful to aquatic life. Harmful to

aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep only in original container. Do not breathe mist/vapors. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material

Store locked up. Store in corrosive resistant container with a resistant inner liner. Storage

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: CL4132 SDS US

CL4132 Version #: 01 Issue date: 05-26-2021

#### Supplemental information

17.5% of the mixture consists of component(s) of unknown acute oral toxicity. 17.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 20% of the mixture consists of component(s) of unknown acute inhalation toxicity. 15% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 2.5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Chlorotolyltriazole sodium salt		202420-04-0	10 - < 20
Sodium hydroxide		1310-73-2	1 - < 3
Sodium tolyltriazole		64665-57-2	1 - < 3
Other components below reportab	ole levels		80 - < 90

### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

#### Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	

#### **Biological limit values**

1310-73-2)

Sodium hydroxide (CAS

No biological exposure limits noted for the ingredient(s).

#### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

2 mg/m3

#### Individual protection measures, such as personal protective equipment

Chemical respirator with organic vapor cartridge and full facepiece. Eye/face protection

Ceiling

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

#### General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Liquid. Liquid Color Dark Straw

Odor Mild

Not available. **Odor threshold** 13 @ 100% pН

12.20 °F (-11.00 °C) Melting point/freezing point

Initial boiling point and boiling

range

210.2 °F (99 °C) estimated

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

0.00001 hPa estimated Vapor pressure

Not available. Vapor density Not available. Relative density

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing. Percent volatile 80 % estimated

Pounds per gallon 9.68

1.16 @ 20C Specific gravity

## 10. Stability and reactivity

Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive Reactivity

to metals.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Contact with incompatible materials. Do not mix with other chemicals.

Conditions to avoid Incompatible materials Strong acids. Strong oxidizing agents. Oxidizing agents. Metals.

**Hazardous decomposition** No hazardous decomposition products are known.

products

## 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage. Causes digestive tract burns. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

**Acute toxicity** Not known.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12 Ecological information

Ecotoxicity	Harmful to ac	Harmful to aquatic life with long lasting effects.			
Product		Species	Test Results		
CL4132					
Aquatic					
Crustacea	IC25	Ceriodaphnia dubia	22.4 mg/l, 7 days		
	LC50	Ceriodaphnia dubia	108 mg/l, 48 hours		
	LOEC	Ceriodaphnia dubia	25 mg/l, 7 days		
	NOEC	Ceriodaphnia dubia	12.5 mg/l, 7 days		
Fish	IC25	Fathead minnow (Pimephales promelas)	31.4 mg/l, 7 days		
	LC50	Fathead minnow (Pimephales promelas)	44.1 mg/l, 96 hours		
	LOEC	Fathead minnow (Pimephales promelas)	25 mg/l, 7 days		
	NOEC	Fathead minnow (Pimephales promelas)	12.5 mg/l, 7 days		
Persistence and degradability	No data is av	ailable on the degradability of any ingredier	nts in the mixture.		
Bioaccumulative potential	No data available.				
Mobility in soil	No data available.				
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

> material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

8

## 14. Transport information

DOT

UN1760 **UN** number

**UN** proper shipping name

CORROSIVE LIQUID N.O.S. (Chlorotolyltriazole sodium salt)

Transport hazard class(es) Class

Subsidiary risk **Packing group** Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 274

IATA

**UN** number UN1760

**UN proper shipping name** 

CORROSIVE LIQUID N.O.S. (Chlorotolyltriazole sodium salt)

Transport hazard class(es)

8 **Class** Subsidiary risk П Packing group **Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN1760

**UN proper shipping name** 

Transport hazard class(es)

CORROSIVE LIQUID N.O.S. (Chlorotolyltriazole sodium salt)

Class 8 Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant Nο

Not available. **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

Not established.

the IBC Code

DOT





## 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard categories

Corrosive to metal Skin corrosion or irritation

Serious eye damage or eye irritation

Reproductive toxicity

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US** state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Sodium hydroxide (CAS 1310-73-2)

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region Inventory name On inventory (yes/no)\* Europe

European Inventory of Existing Commercial Chemical

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

## 16. Other information, including date of preparation or last revision

05-26-2021 Issue date

Version #

Health: 3 **HMIS®** ratings

Flammability: 0 Physical hazard: 0 Personal protection: X

**Disclaimer** ChemTreat cannot anticipate all conditions under which this information and its product, or the

> products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no

> representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which

information refers.

Prepared by: Product Compliance Department: ProductCompliance@chemtreat.com Other information

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# ChemTreat\*

## SAFETY DATA SHEET



## 1. Identification

Product identifier CL5644

Other means of identification

Product code CL5644

Recommended use Cooling Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road

Glen Allen, VA 23060 United States

Telephone 800-648-4579
Website chemtreat.com

**E-mail** productcompliance@chemtreat.com

Emergency phone number 800-424-9300

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B
Sensitization, skin Category 1
Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause

damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to

aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Contaminated work clothing must

not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.

**Response**If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention

if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

s) not otherwise None known.

Material name: CL5644 SDS US

CL5644 Version #: 01 Issue date: 03-03-2023

#### Supplemental information

19.57% of the mixture consists of component(s) of unknown acute oral toxicity. 37.67% of the mixture consists of component(s) of unknown acute dermal toxicity. 30.57% of the mixture consists of component(s) of unknown acute inhalation toxicity. 37.67% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 32.67% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

M	lix	χt	u	re	S

Chemical name	Common name and synonyms	CAS number	%
2-Butenedioic acid (Z)-, homopolymer		26099-09-2	10 - < 20
citric acid		77-92-9	5 - < 10
Reactive Polyhydroxy Complex, RPC		proprietary	5 - < 10
Hydrochloric acid		7647-01-0	< 1
Other components below reportab	le levels		60 - < 70

## 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Symptoms may be delayed.

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

. ...

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Material name: CL5644 SDS US

## Methods and materials for containment and cleaning up

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Value

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Components

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Type

Components	i ype	value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Reactive Polyhydroxy Complex, RPC	PEL	2 mg/m3	
<b>US. ACGIH Threshold Limit Valu</b>	es		
Components	Туре	Value	Form
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Reactive Polyhydroxy Complex, RPC	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Reactive Polyhydroxy Complex, RPC	TWA	2 mg/m3	
		2 mg/mo	

## **Biological limit values**

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

### Individual protection measures, such as personal protective equipment

arriadai proteotion mododroo, odon do poroonal proteotivo equipment			
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.		
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves.		
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		

Material name: CL5644 SDS US

**General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

Clear Appearance Liquid. Physical state

> **Form** Liquid. Liquid

Color Amber Mild Odor

Not available. **Odor threshold** 3.1 100 pН

Melting point/freezing point 26.60 °F (-3.00 °C) Not available.

Initial boiling point and boiling

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 0.00008 hPa estimated

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** 0 - 200 cps

Other information

**Explosive properties** Not explosive. Not oxidizing. Oxidizing properties

10.78 Pounds per gallon

Specific gravity 1.28 - 1.3 @ 20C

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong acids. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

Material name: CL5644 SDS US

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

citric acid (CAS 77-92-9)

<u>Acute</u>

Oral

LD50 Rat 6730 mg/kg

Hydrochloric acid (CAS 7647-01-0)

Acute Oral

LD50 Rabbit 900 mg/kg

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloric acid (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

# 12. Ecological information

cotoxicity	Harmful to	Harmful to aquatic life with long lasting effects.			
Product		Species	Test Results		
CL5644					
Aquatic					
Crustacea	LC50	Ceriodaphnia dubia	1768 mg/l, 48 hours		
		Opossum shrimp order (Mysida)	> 10000 mg/l, 48 hours		

Material name: CL5644 SDS US

ProductSpeciesTest ResultsFishLC50Fathead minnow (Pimephales promelas)3815 mg/l, 96 hoursInland silverside (Menidia beryllina)5675 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

citric acid -1.64

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Hydrochloric acid (CAS 7647-01-0) Listed.

SARA 304 Emergency release notification

Hydrogen chloride (CAS 7647-01-0) 5000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name **CAS** number Reportable **Threshold Threshold** Threshold quantity planning quantity planning quantity, planning quantity, (pounds) (pounds) lower value upper value (pounds) (pounds) 7647-01-0 Hydrochloric acid 5000 500

Material name: CL5644 SDS US

SARA 311/312 Hazardous

chemical

Classified hazard categories

Skin corrosion or irritation Serious eye damage or eye irritation

Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt. Hydrochloric acid 7647-01-0

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Yes

Hydrochloric acid (CAS 7647-01-0)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Hydrochloric acid (CAS 7647-01-0)

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Hydrochloric acid (CAS 7647-01-0)

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Hydrochloric acid (CAS 7647-01-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Hydrochloric acid (CAS 7647-01-0) 6545

### **US** state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Hydrochloric acid (CAS 7647-01-0)

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### **Compliance Information: Halal**

### **Compliance Information: Kosher**

This product is certified by the Orthodox Unionas Kosher pareve

Material name: CL5644 SDS US

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Ashland VA Eldridge IA Nederland TX



# 16. Other information, including date of preparation or last revision

**Issue date** 03-03-2023

Version # 01

**HMIS**® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: X

**Disclaimer** ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or

the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which

ny other nature are made hereunder with respect to information or

information refers.

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: CL5644 SDS US

CL5644 Version #: 01 Issue date: 03-03-2023



# SAFETY DATA SHEET



### 1. Identification

Product identifier BL124
Other means of identification None.

Recommended use Boiler Water Treatment

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road
Glen Allen, VA 23060

United States

Telephone800-648-4579Websitechemtreat.com

**E-mail** productcompliance@chemtreat.com

Emergency phone number 800-424-9300

### 2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Sensitization, respiratoryCategory 1Sensitization, skinCategory 1Environmental hazardsHazardous to the aquatic environment, acuteCategory 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Causes skin irritation. May cause an allergic skin reaction. Causes

serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Category 3

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Keep only in original container. Avoid breathing mist/vapors. Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves. In case of inadequate

ventilation wear respiratory protection.

Response If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air

and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse. Absorb spillage to prevent material damage.

**Storage** Store in corrosive resistant container with a resistant inner liner.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: BL124 SDS US

30% of the mixture consists of component(s) of unknown acute dermal toxicity. 30% of the mixture consists of component(s) of unknown acute inhalation toxicity. 30% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 30% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sodium bisulfite		7631-90-5	25 - < 40
Other components below r	reportable levels		70 - < 80

### 4. First-aid measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Material name: BL124 SDS US

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

### Precautions for safe handling

Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
Sodium bisulfite (CAS 7631-90-5)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Sodium bisulfite (CAS	TWA	5 mg/m3	

**Biological limit values** 

7631-90-5)

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower.

### Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

**Evaporation rate** 

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** Clear Physical state Liquid. Liquid. Liquid **Form** Color Yellow Odor Strong **Odor threshold** Not available. 3.9 @ 100% 30.20 °F (-1.00 °C) Melting point/freezing point Initial boiling point and boiling Not available. range Not available. Flash point

Material name: BL124 SDS US

Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity0 - 200 cps

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Percent volatile 21 % estimated

Pounds per gallon 10.3

Specific gravity 1.24 @ 20C VOC 0 %w/w

# 10. Stability and reactivity

**Reactivity** May be corrosive to metals.

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

**Conditions to avoid**Contact with incompatible materials.

Incompatible materialsHazardous decompositionStrong oxidizing agents. Metals. Strong acids.Hazardous decomposition products are known.

products

# 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation

may be harmful.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

# Information on toxicological effects

Acute toxicity Not known.

Material name: BL124 SDS US

Components Species Test Results

Sodium bisulfite (CAS 7631-90-5)

Acute Oral

LD50 Rat 2 g/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses serious eye damage.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium bisulfite (CAS 7631-90-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

9			
Ecotoxicity	Harmful to a	quatic life with long lasting effects.	
Product		Species	Test Results
BL124			
Aquatic			
Crustacea	LC50	Ceriodaphnia dubia	459 mg/l, 48 hours
			390.4 mg/l, 48 hours
		Opossum shrimp order (Mysida)	70.7 mg/l, 48 hours
	LOEC	Ceriodaphnia dubia	600 mg/l, 7 days
	NOEC	Ceriodaphnia dubia	300 mg/l, 7 days
Fish	IC25	Fathead minnow (Pimephales promelas)	750 mg/l, 7 days
	LC50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hours
			849 mg/l, 96 hours
		Sheepshead minnow (Cyprinodon variegatus)	100 mg/l, 96 hours
	LOEC	Fathead minnow (Pimephales promelas)	1200 mg/l, 7 days
	NOEC	Fathead minnow (Pimephales promelas)	600 mg/l, 7 days
Persistence and degradability	No data is av	vailable on the degradability of any ingredier	nts in the mixture.
Bioaccumulative potential	No data avai	lable.	
Mobility in soil	No data avai	lable.	
Other adverse effects		erse environmental effects (e.g. ozone depl docrine disruption, global warming potential)	•

Material name: BL124 SDS US

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

UN2693 **UN** number

**UN** proper shipping name

BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

Transport hazard class(es)

8 Class Subsidiary risk **Packing group** Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154 203 Packaging non bulk Packaging bulk 241

**IATA** 

**UN** number UN2693

**UN proper shipping name** 

BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

Transport hazard class(es) Class

8 Subsidiary risk Ш Packing group **Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN2693

**UN proper shipping name** Transport hazard class(es) BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

8 Class Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant No.

Not available. **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

Material name: BL124 SDS US



### IATA; IMDG



# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium bisulfite (CAS 7631-90-5)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard categories

Corrosive to metal

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

Material name: BL124 SDS US

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

### **Compliance Information: Halal**

**Philippines** 

### **Compliance Information: Kosher**

This product is certified by the Orthodox Unionas Kosher pareve

Ashland VA Nederland TX Fontana CA



### **Compliance Information: NSF Whitebook**

This product conforms to the requirements of the NSF Nonfood Compounds Registration Program, Registration # 148827; Category G6, G7.



### **Compliance Information: Food Regulations**

FDA: All ingredients in this product are authorized in 21 CFR 173.310 for use as "Boiler Water Additives" where the steam may contact food.

### 16. Other information, including date of preparation or last revision

 Issue date
 07-13-2022

 Revision date
 03-29-2023

Version # 03 HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0 Personal protection: X

Material name: BL124 SDS US

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

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**Revision information** 

Product and Company Identification: Product and Company Identification

Stability and reactivity: Incompatible materials

Other information

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: BL124 SDS US

25 Version #: 03 Revision date: 03-29-2023 Issue date: 07-13-2022





# SAFETY DATA SHEET

# Section 1. Chemical Product and Company Identification

Product Name: SULFURIC ACID 93%

**Product Use:**Supplier's Name:
Miscellaneous
ChemTreat, Inc.

**Emergency Telephone Number:** (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

**Telephone Number for Information:** (800)648–4579 **Date of SDS:** February 8, 2019

**Revision Date:** February 8, 2019 **Revision Number:** 19020801BN

# Section 2. Hazard(s) Identification

Signal Word: DANGER

**GHS Classification(s):** Skin corrosion/irritation – Category 1a

Carcinogenicity - Category 1

Acute Toxicity Inhalation - Category 2

Hazard Statement(s): H314 Causes severe skin burns and eye damage.

H350 May cause cancer. H330 Fatal if inhaled.

**Precautionary Statement(s):** 

**Prevention:** P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P284 Wear respiratory protection. P264 Wash thoroughly after handling. P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have

been read and understood.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P233 Keep container tightly closed.





Response: P301 + 330 + 331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair):

Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower

P304 + P340 IF INHALED: Remove person to fresh

air and keep comfortable for breathing P305 + P351 + P338 IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P308 + P311 IF exposed or concerned: Call a

POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

**Storage:** P403 Store in a well–ventilated place.

P405 Store locked up.

**Disposal:** P501 Dispose of contents and container in accordance

with applicable local, regional, national, and/or

international regulations.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Hazards Not Otherwise** 

Classified:

None.

# Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Sulfuric acid	7664-93-9	93

**Comments** If chemical identity and/or exact percentage of composition has been

withheld, this information is considered to be a trade secret.

# Section 4. First Aid Measures

**Inhalation:** Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a poison center or

doctor/physician.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately

call a poison center or doctor/physician.





**Skin:** Immediately remove/take off all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before re-use.

Immediately call a poison center or doctor/physician.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician.

**Most Important Symptoms:** N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

Necessary:

N/A

# Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

**Suitable Extinguishing Media:** Use extinguishing media suitable to surrounding fire.

Avoid direct spray of water.

**Specific Hazards Arising from** 

the Chemical:

Direct contact with water can cause spattering and heat.

**Protective Equipment:** If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

# Section 6. Accidental Release Measures

**Personal Precautions:** Use appropriate Personal Protective Equipment (PPE).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

**Methods for Cleaning up:** Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: If RQ (Reportable Quantity) is exceeded, report to National

Spill Response Office at 1–800–424–8802. Reportable Quantity of the product is 70 Gal.





# Section 7. Handling and Storage

**Handling:** Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only. Store in a well–ventilated place.

Store away from combustible materials.

# Section 8. Exposure Controls/Personal Protection

### **Exposure Limits**

Component	Source	Exposure Limits
Sulfuric acid	ACGIH TLV	0.2 ppm TWA
	OSHA PEL	1 mg/m³ TWA; Aerosol

**Engineering Controls:** Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.

**Personal Protection** 

**Eyes:** Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

**Skin:** Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

**Respiratory:** If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.





# Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, N/D, N/D Specific Gravity: 1.835 @ 20°C

pH: N/D
Freezing Point: N/D
Flash Point: N/A
Odor: Strong
Melting Point: N/A
Initial Boiling Point and Boiling Range: 230°F

Initial Boiling Point and Boiling Range: 230°F
Solubility in Water: Complete

Evaporation Rate: <1
Vapor Density: 3.4
Molecular Weight: N/D
Viscosity: N/D
Flammability (solid, gas): N/D
Flammable Limits: N/A
Autoignition Temperature: N/A

**Density:** 15.30 LB/GA **Vapor Pressure:** 15.30 LB/GA 1 mmHg @ 145C

% VOC: 0
Odor Threshold N/D
n-octanol Partition Coefficient N/D
Decomposition Temperature N/D

# Section 10. Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various**Bases, Strong oxidizers, Halogens, Metals or metal oxides,

**Substances:** Reducing agents, Combustible materials.

Hazardous Decomposition Oxides of sulfur.

Products:

- ....

Possibility of Hazardous None known.

Reactions:

Reactivity: N/D

Conditions To Avoid: N/D





# Section 11. Toxicological Information

# **Acute Toxicity**

Chemical Name	Exposure	Type of Effect	Concentration	Species
Sulfuric acid	Oral	LD50	2140 MG/KG	Rat
	Inhalation	LD50	375 MG/L	Rat

# **Carcinogenicity Category**

Component	Source	Code	Brief Description
Sulfuric acid	NTP	NTP-K	Known to be a human carcinogen

Likely Routes of Exposure: N/D

**Symptoms** 

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D

Serious Eye Damage/Eye N/D

Irritation:

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental

**Toxicity:** 

N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D

Repeated Exposure: N/D

**Aspiration Hazard:** N/D

Comments: None.





# Section 12. Ecological Information

### **Ecotoxicity**

Species	Duration	Type of Effect	Test Results
N/D	N/D	N/D	N/D

Persistence and

N/D

**Biodegradability:** 

N/D

**Bioaccumulative Potential:** 

Mobility In Soil:

N/D

**Other Adverse Effects:** 

N/D

**Comments:** 

Not tested.

# Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

# Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	UN1830	SULFURIC ACID, WITH MORE	N/A	8	PGII
		THAN 51% ACID			
Over 70 GA	RQ UN1830	SULFURIC ACID, WITH MORE	N/A	8	PGII
		THAN 51% ACID			

Note: N/A





# Section 15. Regulatory Information

**Inventory Status** 

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

**Federal Regulations** 

**SARA Title III Rules** 

Sections 311/312 Hazard Classes

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

Yes

**Other Sections** 

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Sulfuric acid	N/A	1000	1000

Comments: None.

**State Regulations** 

California Proposition 65: This product contains chemica(s) known to the State of

California to cause cancer and/or to cause birth defects or

other reproductive harm: Sulfuric acid.

**Special Regulations** 

Component	States
Sulfuric acid	MA, MN, NJ, NY, PA, WA





# **Compliance Information**

NSF: N/A

Food Regulations: N/A

**KOSHER:** This product has not been evaluated for Kosher approval.

**Halal:** This product has not been evaluated for Halal approval.

FIFRA: N/A

Other: None

Comments: None.

# Section 16. Other Information

# **HMIS Hazard Rating**

Health: 3
Flammability: 0
Physical Hazard: 2
PPE: X

**Notes:** The PPE rating depends on circumstances of use. See

Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for

their use.

### **Abbreviations**

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value





Abbreviation	Definition
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

**Revision Date:** February 8, 2019

# Disclaimer

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# ChemTreat\*

# **SAFETY DATA SHEET**

### 1. Identification

Product identifier P813E

Other means of identification

Product code P813E

Recommended use Water Clarification/Solids Conditioning

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat
Address 5640 Cox Road

Glen Allen, VA 23060 United States

Telephone 800-648-4579
E-mail Not available.
Emergency phone number 800-424-9300

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Wash thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 24.25% of the mixture consists of component(s) of unknown acute oral toxicity. 26.75% of the

mixture consists of component(s) of unknown acute dermal toxicity.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), Hydrotreated Light		64742-47-8	20 - < 30
Alcohols, C10-16, Ethoxylated		68002-97-1	1 - < 3
Alcohols, C12-14, Ethoxylated		68439-50-9	1 - < 3
Alcohols, C12-16-ethoxylated		68551-12-2	1 - < 3
Other components below reportab	e levels		70 - < 80

Material name: P813E SDS US

P813E Version #: 01 Issue date: 03-05-2021

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Get medical attention if

symptoms occur.

Most important symptoms/effects, acute and delayed

Ingestion

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Alcohol resistant foam. Powder. Dry chemicals. Carbon dioxide (CO2). Suitable extinguishing media

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Will burn if involved in a fire. No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift.

Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat and sources of ignition. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material name: P813E SDS US **US. NIOSH: Pocket Guide to Chemical Hazards** 

Components Type Value

Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8) TWA

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

100 mg/m3

established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Liquid. Emulsion
Color Not available.

Odor Mild

Odor threshold Not available.

pH Not available.

Melting point/freezing point 41.00 °F (<5 °C)

Initial boiling point and boiling

range

347 °F (175 °C) estimated

Flash point  $> 200.0 \, ^{\circ}\text{F} \, (> 93.3 \, ^{\circ}\text{C}) >$ 

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 % estimated

(%)

Flammability limit - upper

5 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.64 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 410 °F (210 °C) estimated

**Decomposition temperature** Not available. **Viscosity** 400 - 3000 cps

Material name: P813E SDS US

Other information

**Density** 9.01 lbs/gal **Explosive properties** Not explosive.

Flammability class Combustible IIIB estimated

Oxidizing properties Not oxidizing.

Pounds per gallon 9.01

**Specific gravity** 1 - 1.1 @ 20C **VOC** 1 %w/w

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact**No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

### Information on toxicological effects

Acute toxicity Not known.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not applicable.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard**Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

Material name: P813E SDS US

# 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential Mobility in soil No data available. No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

### **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

sai

Classified hazard categories

Acute toxicity (any route of exposure)
Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

### SARA 313 (TRI reporting)

Not regulated.

Material name: P813E SDS US

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

### **US state regulations**

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

#### **International Inventories**

0-----

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

### 16. Other information, including date of preparation or last revision

**Issue date** 03-05-2021

Version # 01

United States & Puerto Rico

HMIS® ratings Health: 0

Flammability: 1 Physical hazard: 0 Personal protection: X

**Disclaimer**ChemTreat cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's

responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of

any other nature are made hereunder with respect to information or the product to which

information refers.

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: P813E SDS US

P813E Version #: 01 Issue date: 03-05-2021

Yes

# Attachment J Plain Language Summary

Admin Report 1.0 - 9.f., Pg. 9



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Enterprise Products Operating LLC, (CN603211277) operates Houston Ship Channel Marine Loading Facility (RN102580834), a facility that transfers natural gas liquids to ships and barges. The facility is located at 15602 Jacintoport Boulevard, in Houston, Harris County, Texas 77015. This application is for an amendment for Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004976000 (EPA I.D. No. TX0133353) to authorize the addition of wet surface air cooler blowdown water on an intermittent and variable basis via Outfall 002.

Discharges from the facility are expected to contain chemical oxygen demand, oil and grease, and total residual chlorine via Outfall 001 and total organic carbon and oil and grease via Outfall 002. Wet surface air cooler blowdown water, filter backwash, hydrostatic test water, and stormwater will be treated by chemical additives via Outfall 001 and wet surface air cooler blowdown water, firewater monitor, test/flush water, hydrostatic test water, and stormwater, will be treated by chemical additives via 002.

# PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

# AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /AGUAS PLUVIALES

Enterprise Products Operating LLC, (CN603211277) opera Houston Ship Channel Marine Loading Facility (RN102580834), una instalación que transfiere líquidos de gas natural a buques y barcazas. La instalación está situada en 15602 Jacintoport Boulevard, en Houston, Harris County, Texas 77015. Esta solicitud es para una enmienda del Permiso del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) No. WQ0004976000 (EPA I.D. No. TX0133353) para autorizar la adición de agua de purga del enfriador de aire de superficie húmeda de forma intermitente y variable a través del Emisario 002.

Se prevé que los vertidos de la instalación contengan demanda química de oxígeno, aceites y grasas y cloro residual total a través del emisario 001 y carbono orgánico total y aceites y grasas a través del emisario 002. El agua de purga del enfriador de aire de superficie húmeda, el agua de lavado de filtros, el agua de prueba hidrostática y las aguas pluviales se tratarán mediante aditivos químicos a través del emisario 001 y el agua de purga del enfriador de aire de superficie húmeda, el monitor de agua contra incendios, el agua de prueba/lavado, el agua de prueba hidrostática y las aguas pluviales se tratarán mediante aditivos químicos a través del emisario 002.

# INSTRUCTIONS

- 1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
- 2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
- 3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
- 4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
- 5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
- 6. Choose the appropriate article (a or an) to complete the sentence.
- 7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
- 8. Choose "is" for an existing facility or "will be" for a new facility.
- 9. Enter the location of the facility in this section.
- 10. Enter the City nearest the facility in this section.
- 11. Enter the County nearest the facility in this section.
- 12. Enter the zip code for the facility address in this section.
- 13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
- 14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
- 15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
- 16. Choose the appropriate verb tense to complete the sentence.
- 17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

# **Example 1: Industrial Wastewater TPDES Application (ENGLISH)**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

ABC Corporation (CN600000000) operates the Starr Power Station (RN100000000000), a twounit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

# **Example 2: Domestic Wastewater TPDES Renewal application**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

# **Example 3: Domestic Wastewater TPDES New Application**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

### Example 4: Domestic Wastewater TLAP Renewal application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations

of the permit application.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand ( $BOD_5$ ), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

#### **Leah Whallon**

From: Chastant, Michael <MDChastant1@eprod.com>

**Sent:** Thursday, July 17, 2025 9:44 AM

**To:** Leah Whallon; Environmental Dept - Corporate **Cc:** Ritcheson, Jefferson; Bissonnette, Daniel

Subject: RE: Application to Amend Permit No. WQ0004976000; Enterprise Products Operating

LLC; Houston Ship Channel Marine Loading Facility

**Attachments:** EHT Spanish NORI.docx

**Follow Up Flag:** Follow up **Flag Status:** Flagged

Good morning Leah,

The NORI language appears correct. I do have one question. Should the NORI list the date TCEQ received the original application (June 23, 2025), or the date it received the updated application (submitted July 3, 2025)?

The Spanish language translation of the NORI is attached. Please let me know if you have any further questions.

Michael Chastant Staff Environmental Engineer



Houston, TX 77002 Office: 713-381-6617 Mobile: 713-376-6745

From: Leah Whallon < Leah. Whallon@Tceq.Texas.Gov>

**Sent:** Thursday, July 3, 2025 4:30 PM

To: Chastant, Michael < MDChastant1@eprod.com >; Bissonnette, Daniel < dmbissonnette@eprod.com >; Environmental

Dept - Corporate <environmental@eprod.com>

Subject: [EXTERNAL] RE: Application to Amend Permit No. WQ0004976000; Enterprise Products Operating LLC; Houston

Ship Channel Marine Loading Facility

#### [Use caution with links/attachments]

Hi Michael,

Yes, this should be okay. We can give an extension after the initial deadline passes. Please let me know if you have any questions.

Thanks,



How is our customer service? Fill out our online customer satisfaction survey at <a href="https://www.tceq.texas.gov/customersurvey">www.tceq.texas.gov/customersurvey</a>

From: Chastant, Michael < <a href="MDChastant1@eprod.com">MDChastant1@eprod.com</a>>

**Sent:** Thursday, July 3, 2025 10:25 AM

To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>; Bissonnette, Daniel <dmbissonnette@eprod.com>; Environmental

Dept - Corporate < environmental@eprod.com >

Subject: RE: Application to Amend Permit No. WQ0004976000; Enterprise Products Operating LLC; Houston Ship

**Channel Marine Loading Facility** 

#### Good morning,

Enterprise is in the process of submitting a revised application that will address items 1 and 2 as well as make other changes to the application. The file requested in item 3 is attached.

I will be out of the office starting 7/4 and not returning until 7/14. May we have an extension to respond to items 4 and 5 until 7/23/25 so I have time to properly address them?

Thank you,

Michael Chastant Staff Environmental Engineer



Houston, TX 77002 Office: 713-381-6617 Mobile: 713-376-6745

From: Leah Whallon < Leah. Whallon@Tceq.Texas.Gov >

Sent: Wednesday, July 2, 2025 3:10 PM

**To:** Chastant, Michael < <a href="MDChastant1@eprod.com">MDChastant1@eprod.com</a>>; Bissonnette, Daniel < <a href="mailto:dmbissonnette@eprod.com">dmbissonnette@eprod.com</a>>; Environmental

Dept - Corporate < environmental@eprod.com >

**Subject:** [EXTERNAL] Application to Amend Permit No. WQ0004976000; Enterprise Products Operating LLC; Houston

**Ship Channel Marine Loading Facility** 

[Use caution with links/attachments]

Good Afternoon,

Please see the attached Notice of Deficiency letter dated July 2, 2025 requesting additional information needed to declare the application administratively complete. Please send the complete response by July 16, 2025.

Please let me know if you have any questions.

Thank you,



**Leah Whallon**Texas Commission on Environmental Quality
Water Quality Division
512-239-0084

leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at <a href="https://www.tceq.texas.gov/customersurvey">www.tceq.texas.gov/customersurvey</a>

This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



July 3, 2025

7022 1670 0001 7321 6162 Return Receipt Requested

Water Quality Division
Application Review and Processing Team, MC-148
Texas Commission on Environmental Quality
PO Box 13087
Austin, TX 78711

Re: Application to Amend TPDES Permit WQ0004976000, EPA ID No. TX0133353

**Enterprise Products Operating LLC (CN603211277)** 

**Enterprise East Houston Ship Channel Marine Terminal (RN102580834)** 

Houston, Harris County, Texas

Dear Sir or Madam:

Enterprise Products Operating LLC (Enterprise) submits herein to the Texas Commission on Environmental Quality (TCEQ), one original and two copies of the enclosed Major Amendment Application for Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004976000 (Permit).

With this application, Enterprise is proposing to authorize wastewater discharges associated with an additional train (Train 4) for refrigeration of propane. This is an update to the previous application submitted on June 12, 2025.

The application fee has been submitted to TCEQ Financial Administration under separate cover and copy of the payment has been included with the enclosed application. The application has also been submitted to TCEQ electronically as required.

Should you have any questions or need any additional information, please contact Michael Chastant at (713) 381-6617 or MDChastant1@eprod.com or Daniel Bissonnette at 713-381-6770.

Sincerely,

**Enterprise Products Operating LLC** 

Michael Chastant

Engineer, Staff Environmental

Daniel M. Bissonnette Supervisor, Environmental

Alm Mes



Enterprise Products Operating LLC
Enterprise East Houston Ship Channel Marine
Terminal
Permit WQ0004976000
RN102580834
CN603211277

**July 2025** 

#### **Table of Contents**

**Submission Checklist** 

Industrial Administrative Report 1.0

Industrial Administrative Report 1.1

Supplemental Permit Information Form

Industrial Technical Report 1.0

Worksheet 1.0 EPA Effluent Guidelines

Worksheet 2.0 Pollutant Analyses Requirements

Worksheet 4.0 Receiving Waters

Attachment A Copy of Fee Submittal

Attachment B Core Data Form and PIP Form

Attachment C USGS Map

Attachment D Adjacent Landowners Map

Attachment E Original Photographs

Attachment F SPIF Map

Attachment G Facility Layout Drawings

Attachment H Facility Outfall Locations and Flow Schematics

Attachment I Chemical Additives for Cooling Tower

Attachment J Plain Language Summary

Submission Checklist



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: Enterprise Products Operating LLC

PERMIT NUMBER (If new, leave blank): WQ00\_WQ0004976000

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	$\boxtimes$		Worksheet 8.0		$\boxtimes$
Administrative Report 1.1	$\boxtimes$		Worksheet 9.0		$\boxtimes$
SPIF	$\boxtimes$		Worksheet 10.0		$\boxtimes$
Core Data Form	$\boxtimes$		Worksheet 11.0		$\boxtimes$
Summary of Application (PLS)		$\boxtimes$	Worksheet 11.1		$\boxtimes$
Public Involvement Plan Form	$\boxtimes$		Worksheet 11.2		$\boxtimes$
Technical Report 1.0	$\boxtimes$		Worksheet 11.3		$\boxtimes$
Worksheet 1.0	$\boxtimes$		Original USGS Map	$\boxtimes$	
Worksheet 2.0	$\boxtimes$		Affected Landowners Map	$\boxtimes$	
Worksheet 3.0		$\boxtimes$	Landowner Disk or Labels	$\boxtimes$	
Worksheet 3.1		$\boxtimes$	Flow Diagram	$\boxtimes$	
Worksheet 3.2		$\boxtimes$	Site Drawing	$\boxtimes$	
Worksheet 3.3		$\boxtimes$	Original Photographs	$\boxtimes$	
Worksheet 4.0	$\boxtimes$		Design Calculations		$\boxtimes$
Worksheet 4.1		$\boxtimes$	Solids Management Plan		$\boxtimes$
Worksheet 5.0		$\boxtimes$	Water Balance	$\boxtimes$	
Worksheet 6.0		$\boxtimes$			
Worksheet 7.0					

For TCEQ Use Only	
Segment Number	County
Expiration Date	Region

Permit Number



# COMMISSION OF THE PROPERTY OF

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

#### INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use Oil and Gas Exploration and Production Administrative Report (<u>TCEQ Form-20893 and 20893-inst</u>¹).

Ite	em 1. Application Information and Fees (Instructions, Page 26)
a.	Complete each field with the requested information, if applicable.
	Applicant Name: Enterprise Products Operating LLC
	Permit No.: <u>WQ0004976000</u>
	EPA ID No.: <u>TX0133353</u>
	Expiration Date: <u>05-12-2028</u>
b.	Check the box next to the appropriate authorization type.
	☑ Industrial Wastewater (wastewater and stormwater)
	□ Industrial Stormwater (stormwater only)
	☐ Reverse Osmosis Water Treatment (reverse osmosis water treatment wastewaters only)
c.	Check the box next to the appropriate facility status.
	□ Inactive
d.	Check the box next to the appropriate permit type.
	$oxed{oxed}$ TPDES Permit $oxed{oxed}$ TLAP $oxed{oxed}$ TPDES with TLAP component
e.	Check the box next to the appropriate application type.
	□ New
	☐ Renewal with changes ☐ Renewal without changes
	☐ Major amendment with renewal ☐ Major amendment without renewal
	☐ Minor amendment without renewal
	☐ Minor modification without renewal
f.	If applying for an amendment or modification, describe the request: <u>The Enterprise facility is adding one additional refrigeration/export train to the site.</u> The wastewater composition is expected to be similar to current wastewater discharges via Outfall 002 from the existing <u>Train 3.</u>

For TCEQ Use Only

<sup>&</sup>lt;sup>1</sup> https://www.tceq.texas.gov/publications/search\_forms.html

Segment Number	County	
Expiration Date	Region _	
Permit Number		

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	□ \$350	⊠ \$350	□ \$315	□ \$150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	\$1,250	□ \$1,250	□ \$1,215	□ \$150
Major facility	N/A <sup>2</sup>	□ \$2,050	□ \$2,015	□ \$450

h. Payment Information

#### Mailed

Check or money order No.: Click to enter text.

Check or money order amt.: Click to enter text.

Named printed on check or money order: Click to enter text.

#### **Epay**

Voucher number: 582EA000672274.

Copy of voucher attachment: Attachment A

#### **Applicant Information (Instructions, Pages 26)** Item 2.

a. Customer Number, if applicant is an existing customer: <u>CN603211277</u>

Note: Locate the customer number using the TCEQ's Central Registry Customer Search<sup>3</sup>.

b. Legal name of the entity (applicant) applying for this permit: Enterprise Products Operating LLC

**Note:** The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Full Name (Last/First Name): Bradley J. Cooley Prefix: Mr.

Title: <u>Senior Director</u> Credential: Click to enter text.

d. Will the applicant have overall financial responsibility for the facility?

$\boxtimes$	Yes		No
	1 00	_	110

<sup>&</sup>lt;sup>2</sup> All facilities are designated as minors until formally classified as a major by EPA.

https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

**Note:** The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

Item 3. Co-applicant Information (Instructions, Page	27	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	_	_	_	2	2	2	2	_	_	2	2	2	2	)	2	2	2	2	2	2	2	_	2	2	4	4	-	-	-	4	4	-	-	-	-	-	-	-	-	-	-	4	4	4	-	-	4	4	4	4	4		ľ	4	ľ				ı	4	•		2	E	•	Ī	)	0	Ş		ı	1	3	2	ć	)	)	I	]		ı	Į	;	S	ľ	1	ı	)	J	(	į	j	t	1	C	(	l	J	ι	1	r	r		t	t	t	I	5	S	S	5	1	1	1	1	r	Ī	ĺ	I		(	(	(
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- ☐ Check this box if there is no co-applicant.; otherwise, complete the below questions.
- a. Legal name of the entity (co-applicant) applying for this permit: N/A

**Note:** The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): <u>CNClick to enter text.</u>

**Note:** Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

☐ Yes ☐ No

**Note:** The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

#### Item 4. Core Data Form (Instructions, Pages 27)

a. Complete and attach one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)). If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: B

#### Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contacted about this application. Indicate if the individual can be contacted about administrative or technical information, or both.

a. 🗆 Administrative Contact	. 🗵 Technical Contact
-----------------------------	-----------------------

Prefix: Mr. Full Name (Last/First Name): Micheal Chastant

Title: <u>Staff Engineer, Environmental</u> Credential: <u>Click to enter text.</u>

Organization Name: Enterprise Products Operating LLC

Mailing Address: <u>1100 Louisiana St.</u> City/State/Zip: <u>Houston/TX/77002</u>

Phone No: 713-381-6617 Email: mdchastant1@eprod.com

b. ☑ Administrative Contact ☐ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Daniel Bissonnette

Title: <u>Supervisor</u>, <u>Environmental Permitting</u> Credential: <u>Click to enter text</u>.

Organization Name: Enterprise Products Operating LLC

Mailing Address: 1100 Louisiana St. City/State/Zip: Houston/TX/77002

Phone No: 713-381-3669 Email: dmbissonnette@eprod.com

Attachment: Click to enter text.

#### Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr. Full Name (Last/First Name): Micheal Chastant

Title: Staff Engineer, Environmental Credential: Click to enter text.

Organization Name: Enterprise Products Operating LLC

Mailing Address: 1100 Louisiana St. City/State/Zip: Houston/TX/77002

Phone No: 713-381-6617 Email: mdchastant1@eprod.com

b. Prefix: Mr. Full Name (Last/First Name): Daniel Bissonnette

Title: Supervisor, Environmental Permitting Credential: Click to enter text.

Organization Name: <u>Enterprise Products Operating LLC</u>

Mailing Address: 1100 Louisiana St City/State/Zip: Houston/TX/77002

Phone No: 713-381-3669 Email: dmbissonnette@eprod.com

Attachment: Click to enter text.

#### Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Ms. Full Name (Last/First Name): Brenda Mendez

Title: <u>Analyst, Planning & Reports</u> Credential: <u>Click to enter text.</u>

Organization Name: Enterprise Products Operating LLC

Mailing Address: P.O. Box 4324 City/State/Zip: Houston/ TX/77210

Phone No: <u>713-381-6595</u> Email: <u>environmental@eprod.com</u>

#### Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr. Full Name (Last/First Name): Jeff Ritcheson

Title: <u>Lead Field Environmental Scientist</u> Credential: <u>Click to enter text.</u>

Organization Name: Enterprise Products Operating LLC

Mailing Address: <u>15602 Jacintoport Blvd</u> City/State/Zip: <u>Houston/TX/77015</u>

Phone No: <u>281-860-4787</u> Email: <u>jhritcheson@eprod.com</u>

#### Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mr. Full Name (Last/First Name): Micheal Chastant

Title: <u>Staff Engineer, Environmental</u> Credential: <u>Click to enter text.</u>

Organization Name: Enterprise Products Operating LLC

Mailing Address: 1100 Louisiana St. City/State/Zip: Houston, TX 77002

Phone No: 713-381-6617 Email: mdchastant1@eprod.com

- b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)
  - ⊠ E-mail: mdchastant1@eprod.com. dmbissonnette@eprod.com. environmental@eprod.com
  - ☐ Fax: Click to enter text.
  - ⊠ Regular Mail (USPS)

Mailing Address: 1100 Louisiana St.

City/State/Zip Code: Houston, TX 77002

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Michael Chastant

Title: Staff Engineer, Environmental Credential: Click to enter text.

Organization Name: Enterprise Products Operating LLC

Phone No: 713-381-6617 Email: mdchastant1@eprod.com

d. Public Viewing Location Information

**Note:** If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: <u>Harris County Public Library - North Channel Library</u> Location

within the building: Reference desk

Physical Address of Building: <u>15741 Wallisville Road</u>

City: Houston County: Harris

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

		⊠ Yes □ No
		If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)
	2.	Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
		⊠ Yes □ No
	3.	Do the students at these schools attend a bilingual education program at another location?
		□ Yes ☒ No
	4.	Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?
		□ Yes ⊠ No □ N/A
	5.	If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? <u>Spanish</u>
f.	Ap	mmary of Application in Plain Language Template – Complete and attach the Summary of oplication in Plain Language Template (TCEQ Form 20972), also known as the plain anguage summary or PLS. Attachment: J
g.		mplete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each plication for a new permit or major amendment. Attachment: $\underline{B}$
Ito	em	10. Regulated Entity and Permitted Site Information (Instructions Page 29)
a.	TC	EQ issued Regulated Entity Number (RN), if available: RN102580834
	ma the	ote: If your business site is part of a larger business site, a Regulated Entity Number (RN) ay already be assigned for the larger site. Use the RN assigned for the larger site. Search e TCEQ's Central Registry to determine the RN or to see if the larger site may already be gistered as a Regulated Entity. If the site is found, provide the assigned RN.
b.		me of project or site (name known by the community where located): <u>Enterprise-</u> ouston Ship Channel Marine Loading Facility
c.	Is	the location address of the facility in the existing permit the same?
	$\boxtimes$	Yes □ No □ N/A (new permit)
	Wi	ote: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or lliamson County, additional information concerning protection of the Edwards Aquifer by be required.
d.	Ov	vner of treatment facility:
	Pre	efix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Click to enter text.</u>
	or	Organization Name: Enterprise Products Operating LLC
	Ma	tiling Address: P.O. Box 4324 City/State/Zip: Click to enter text.
	Ph	one No: <u>713-381-6595</u> Email: <u>environmental@eprod.com</u>

e.	Ownership of facility:   Public	I Private	□ Both	□ Federal
f.	Owner of land where treatment facility is	or will be:	Click to enter text.	
	Prefix: <u>Click to enter text.</u> Full Name (	Last/First N	Name): <u>Click to ente</u>	er text.
	or Organization Name: Enterprise Product	s Operatin	g LLC	
	Mailing Address: <u>P.O. Box 4324</u>	Ci	ty/State/Zip: <u>Hous</u>	ton/TX/77210
	Phone No: <u>713-381-6595</u> Email: <u>envir</u>	<u>conmental@</u>	eprod.com	
	<b>Note:</b> If not the same as the facility owner at least six years (In some cases, a lease multiplication of the same as the facility owner at least six years (In some cases, a lease multiplication of the same as the facility owner at least six years (In some cases, a lease multiplication of the same as the facility owner at least six years).			
g.	Owner of effluent TLAP disposal site (if ap	pplicable): <u>l</u>	<u>N/A</u>	
	Prefix: Click to enter text. Full Name (	Last/First N	Name): <u>Click to ente</u>	er text.
	or Organization Name: Click to enter text.			
	Mailing Address: Click to enter text.	Ci	ty/State/Zip: <u>Click</u>	to enter text.
	Phone No: <u>Click to enter text.</u> Email: <u>Click</u>	to enter te	ext.	
	<b>Note:</b> If not the same as the facility owner at least six years. Attachment: Click to ent		ong-term lease agro	eement in effect for
h.	Owner of sewage sludge disposal site (if a	pplicable):		
	Prefix: Click to enter text. Full Name (	Last/First N	Name): <u>Click to ente</u>	er text.
	or Organization Name: $N/A$			
	Mailing Address: <u>Click to enter text.</u>	Ci	ty/State/Zip: <u>Click</u>	to enter text.
	Phone No: <u>Click to enter text.</u> Email: <u>Click</u>	to enter tex	<u>kt.</u>	
	<b>Note:</b> If not the same as the facility owner at least six years. Attachment: Click to ent		ong-term lease agro	eement in effect for
Ite	em 11. TDPES Discharge/TLAP I Page 31)	Disposal	Information (I	nstructions,
a.	Is the facility located on or does the treate	ed effluent	cross Native Amer	ican Land?
	□ Yes ⊠ No			
b.	Attach an original full size USGS Topograprenewal or amendment applications) with each item below to confirm it has been in	all require	d information. Che	-
	☑ One-mile radius	⊠ Three-	miles downstream	information
	☑ Applicant's property boundaries	☐ Treatn	nent facility bound	aries
	□ Labeled point(s) of discharge	⊠ Highli	ghted discharge ro	ute(s)
	☐ Effluent disposal site boundaries	□ All wa	stewater ponds	
	☐ Sewage sludge disposal site	⊠ New a	nd future construc	tion
	Attachment: C			

c.	Is the location of the sewage sludge disposal site in the existing permit accurate?
	☐ Yes ☐ No or New Permit
	If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>
d.	Are the point(s) of discharge in the existing permit correct?
	☑ Yes ☐ No or New Permit
	If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>
e.	Are the discharge route(s) in the existing permit correct?
	☑ Yes ☐ No or New Permit
	If no, or a new permit, provide an accurate description of the discharge route: <u>Click to enter text.</u>
f.	City nearest the outfall(s): <u>Houston</u>
g.	County in which the outfalls(s) is/are located: <u>Harris</u>
h.	Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?
	□ Yes ⊠ No
	If yes, indicate by a check mark if: $\square$ Authorization granted $\square$ Authorization pending
	For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.
	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.
i.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	$\square$ Yes No or New Permit $\boxtimes$ $\underline{N/A}$
	If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>
j.	City nearest the disposal site: $N/A$
k.	County in which the disposal site is located: $\underline{N/A}$
l.	For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: $\underline{\text{N/A}}$
m.	For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: $N/A$

#### Item 12. Miscellaneous Information (Instructions, Page 33)

a.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	□ Yes ⊠ No
	If yes, list each person: <u>Click to enter text.</u>
b.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes, provide the following information:
	Account no.: Click to enter text.
	Total amount due: <u>Click to enter text.</u>
c.	Do you owe any penalties to the TCEQ?
	□ Yes ⋈ No
	If yes, provide the following information:
	Enforcement order no.: <u>Click to enter text.</u>
	Amount due: <u>Click to enter text.</u>

#### Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0004976000

Applicant Name: Enterprise Products Operating LLC

Certification: I, <u>Brad Cooley</u>, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Bradley J. Cooley

Signatory title: Senior Director

Signature: (Use blue ink)	Z	Date: 07	/03/2025
Subscribed and Sworn to before me b	y the said	Bradley J. Coo	ley
on this 3rd	day of	July	, 2025
My commission expires on the2	3rd day of	February	, 20 <u>26</u>
Brenda Mudis/ Notary Public  Harris	BRENDA J. MEN Notary Public, State Comm. Expires 02-2 Notary ID 10264	of Texas 1 23-2026	
County, Texas			

**Note:** If co-applicants are necessary, each entity must submit an original, separate signature page.



## INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

#### Item 1. Affected Landowner Information (Instructions, Page 35)

- a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.
  - $\boxtimes$  The applicant's property boundaries.
  - ☑ The facility site boundaries within the applicant's property boundaries.
  - ☑ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.
  - ☑ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
  - ☑ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.
  - ☑ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.
  - ☑ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.
  - ☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.
  - ☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.
  - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.
  - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: D

- b.  $\boxtimes$  that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).
- c. Check this box to confirm a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided. Provide the source of the landowners' names and mailing addresses: <u>Harris County Appraisal District</u>

□ Yes ⋈ No
If yes, provide the location and foreseeable impacts and effects this application has on the land(s): <u>Click to enter text.</u>
Item 2. Original Photographs (Instructions, Page 37)
Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.
$\square$ At least one original photograph of the new or expanded treatment unit location.
At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
$\square$ At least one photograph of the existing/proposed effluent disposal site.
oxtimes A plot plan or map showing the location and direction of each photograph.
Attachment: <u>E</u>

e. As required by Texas Water Code  $\S$  5.115, is any permanent school fund land affected by this application?



## INDUSTRIAL WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: <u>F</u>

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

### FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TOTO WOT ONLY	
TCEQ USE ONLY:  Application type:  Denoted Major Amon	dmont Minor Amondmont Nov.
Application type:RenewalMajor Amen	
County: Se	egment Number:
Admin Complete Date:	
Agency Receiving SPIF:	IIC Fish and Wildlife
Texas Historical Commission	
Texas Parks and Wildlife Department	U.S. Army Corps of Engineers
This faces are the tar TDDFC or any it are the state of	
This form applies to TPDES permit applications of	
Complete this form as a separate document. TCEQ our agreement with EPA. If any of the items are not is needed, we will contact you to provide the informulation completely.	t completely addressed or further information
Do not refer to your response to any item in the attachment for this form separately from the Admi application will not be declared administratively completed in its entirety including all attachments may be directed to the Water Quality Division's Appenail at <a href="https://www.wov.nc.nih.gov">www.wov.nc.nih.gov</a> or by phone	inistrative Report of the application. The omplete without this SPIF form being . Questions or comments concerning this form plication Review and Processing Team by
The following applies to all applications:	
1. Permittee: <u>Enterprise Products Operating LLC</u>	
Permit No. WQ00 <u>004976000</u>	EPA ID No. TX <u>TX0133353</u>
Address of the project (or a location description and county):	n that includes street/highway, city/vicinity,
15602 Jacintoport Boulevard, Houston, Harris	County, Texas 77015

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.
Prefix (Mr., Ms., Miss): Mr.
First and Last Name: <u>Michael Chastant</u>
Credential (P.E, P.G., Ph.D., etc.):
Title: <u>Staff Engineer, Environmental</u>
Mailing Address: P.O. Box 4324
City, State, Zip Code: <u>Houston, Texas, 77210</u>
Phone No.: <u>713-381-6617</u> Ext.: Fax No.:
E-mail Address: mdchastant1@eprod.com
List the county in which the facility is located: <u>Harris</u>
If the property is publicly owned and the owner is different than the permittee/applicant,
please list the owner of the property.  N/A
<u>-1//</u>
Provide a description of the effluent discharge route. The discharge route must follow the flow
of effluent from the point of discharge to the nearest major watercourse (from the point of
discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.
The discharge from Outfall 001 is via pipeline to a man-made ditch on the adjacent
terminal property and to the Houston Ship Channel Tidal. Outfall 002 directly discharges to
the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin.
Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). <b>Attachment F-SPIF Map.</b>
Provide original photographs of any structures 50 years or older on the property.
Does your project involve any of the following? Check all that apply.
☐ Proposed access roads, utility lines, construction easements
☐ Visual effects that could damage or detract from a historic property's integrity
☐ Vibration effects during construction or as a result of project design
☐ Additional phases of development that are planned for the future
☐ Sealing caves, fractures, sinkholes, other karst features

2.3.

4.

5.

	☐ Disturbance of vegetation or wetlands
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	N/A
2.	0 , 0 ,
	The facility is located at an existing industrial complex.
	HE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS
3.	List construction dates of all buildings and structures on the property:
	The Enterprise operations areas at the industrial complex were developed in 1999.
4.	Provide a brief history of the property, and name of the architect/builder, if known.
1.	The property was undeveloped land prior to development as an industrial complex.

Industrial Technical Report 1.0

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



### INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u><sup>1</sup> available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

**NOTE:** This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

#### Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

The facility transfers Natural Gas Liquid (NGL) products between ships or barges berthed at one of the several ship/barge docks and various intrastate pipelines. Selective export products are dehydrated, refrigerated, treated, and then routed through the transfer facility for loading onto ships or barges. Enterprise is not requesting any changes to the activity and general nature of business with the major amendment application. SIC Code: 4491

b. Describe all wastewater-generating processes at the facility.

In a Wet Surface Air Cooling (WSAC), a non-contact blowdown is generated from cooling warm process fluids in a closed-loop tube bundle; therefore, the cooled fluid does not contact the outside air. To cool the fluid, induced airflow and water continuously flow downward across the tube bundle surfaces. The air ensures that water is evenly distributed on the tube bundle surfaces, minimizing fouling potential. WSAC blowdown discharges continuously via Outfall 001 and Outfall 002. Fire monitor test/flush water is utilized as needed to test or flush the fire system and is discharged intermittently via Outfalls 001 and 002. Hydrostatic test water will be discharged, as needed, on an intermittent basis from Outfall 001 and Outfall 002.

https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES\_industrial\_wastewater\_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

#### **Materials List**

Raw Materials	Intermediate Products	Final Products
Natural Gas Liquid		Natural Gas Liquid

Attachment: Click to enter text.

Attachment: Click to enter text.

- d. Attach a facility map (drawn to scale) with the following information:
  - Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
  - The location of each unit of the WWTP including the location of wastewater collection

	sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.
	Attachment: <u>G</u>
e.	Is this a new permit application for an existing facility?
	□ Yes ⊠ No
	If <b>yes</b> , provide background discussion: Click to enter text.
f.	Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.
	⊠ Yes □ No
	List source(s) used to determine 100-year frequency flood plain: <u>FEMA Map - 48201C0910M</u> , <u>revised January 6, 2017</u>
	If <b>no</b> , provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and

g. For new or major amendment permit applications, will any construction operations result in a discharge of fill material into a water in the state?

rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.

	☐ Yes ⊠ No ☐ N/A (renewal only)
h.	If <b>yes</b> to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?
	□ Yes □ No
	If <b>yes</b> , provide the permit number: Click to enter text.
	If <b>no</b> , provide an approximate date of application submittal to the USACE: Click to enter text.
It	em 2. Treatment System (Instructions, Page 40)
a.	List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.
	Chemical additives used in the raw water feed to the WSAC are the only treatment at this facility. Enterprise is not requesting any changes to the treatment process with this major amendment application. SDS for all additives are included in Attachment I.
b.	Attach a flow schematic <b>with a water balance</b> showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.
	Attachment: <u>H</u>
It	em 3. Impoundments (Instructions, Page 40)
Do	bes the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)
	□ Yes ⊠ No
3.6	no, proceed to Item 4. If yes, complete Item 3.a for existing impoundments and Items 3.a - e for new or proposed impoundments. NOTE: See instructions, Pages 40-42, for additional formation on the attachments required by Items 3.a - 3.e.
a.	Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

**Use Designation:** Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

**Associated Outfall Number:** Provide an outfall number if a discharge occurs or will occur.

**Liner Type:** Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

**Leak Detection System:** If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

**Groundwater Monitoring Wells and Data:** If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

**Dimensions:** Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

**Compliance with 40 CFR Part 257, Subpart D:** If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter Y for yes. Otherwise, enter N for no.

**Date of Construction:** Enter the date construction of the impoundment commenced (mm/dd/yy).

#### **Impoundment Information**

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), Not Including Freeboard				
Freeboard (ft)				
Surface Area (acres)				
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

Attachment: Click to enter text.

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1.	Line	er data				
		Yes		No		Not yet designed
2.	. Leak detection system or groundwater monitoring data					
		Yes		No		Not yet designed
3.	Groundwater impacts					

**NOTE:** Item b.3 is required if the bottom of the pond is not above the seasonal highwater table in the shallowest water-bearing zone.

Not yet designed

Attachment: Click to enter text.

No

Yes

**For TLAP applications: Items 3.c – 3.e** are **not required**, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

## Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

**For TLAP applications:** Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal

area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

#### **Outfall Longitude and Latitude**

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	29.739036	95.131667
(WQ4976)		
002	29.737778	95.131147
(WQ4976)		

#### **Outfall Location Description**

Outfall No.	Location Description
001	At the discharge from the man-made ditch on the adjacent terminal property.
(WQ4976)	
002	At the discharge prior to entry into the Houston Ship Channel.
(WQ4976)	

#### Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point		
001	Prior to entering the man-made ditch.		
(WQ4976)			
OO2 Prior to entering the man-made ditch.			
(WQ4976)			

#### **Outfall Flow Information - Permitted and Proposed**

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	Variable	Variable	Variable	Variable	
(WQ4976)					
002	Variable	Variable	Variable	Variable	
(WQ4976)					

#### **Outfall Discharge - Method and Measurement**

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	Y*	Flow Meter*
(WQ4976)			
002	Y	Y*	Flow Meter*
(WQ4976)			

	Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
*Discharge of utility blowdown is pumped (and measured via flowmeter), then the disch		flowmeter), then the discharge		

\*Discharge of utility blowdown is pumped (and measured via flowmeter), then the discharge flows into the stormwater conveyance where the discharge gravity drains to Outfall 002.

#### **Outfall Discharge - Flow Characteristics**

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	Y	N	Y	24	31	12
002	Y	N	Y	24	31	12

#### **Outfall Wastestream Contributions**

#### Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Wet Surface Air Cooler Blowdown	Variable	Intermittent
Stormwater	Variable	Intermittent
Fire monitor test/flush water	Variable	Intermittent
Hydrostatic Test	Variable	Intermittent

#### Outfall No. <u>002</u>

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Wet Surface Air Cooler Blowdown	Variable	Intermittent
Stormwater	Intermittent	Intermittent
Fire monitor test/flush water	Intermittent	Intermittent
Hydrostatic Test	Intermittent	Intermittent

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: Click to enter text.

# Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a.	indicate ii	tne racility	currently c	or prop	oses to:	

$\boxtimes$	Yes □	No	Use cooling towers that discharge blowdown or other wastestream	ıs

☐ Yes ☒ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ No Discharge once-through cooling water

**NOTE:** If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required**.

- b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.
  - Manufacturers Product Identification Number
  - Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
  - Chemical composition including CASRN for each ingredient
  - Classify product as non-persistent, persistent, or bioaccumulative
  - Product or active ingredient half-life
  - Frequency of product use (e.g., 2 hours/day once every two weeks)
  - Product toxicity data specific to fish and aquatic invertebrate organisms
  - Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

**Attachment:** Click to enter text.

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

#### **Cooling Towers and Boilers**

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	5		
Boilers			

## Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at  $40 \ CFR \ \S \ 122.26(b)(14)$ , commingled with any other wastestream?

$\boxtimes$	Yes	No
	103	110

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Stormwater from process areas will not typically contact raw materials or products during normal operations since processes occur in closed piping/vessels that undergo regular preventative maintenance. Processing areas may also include storage of chemical additives in closed containers and rotating equipment maintained with lubricants/greases. In the event of heavy maintenance activity and/or spills inside the process units after cleaning up, residues may be entrained in stormwater flows

## Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

*Domestic Sewage* - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a. Check the box next to the appropriate method of domestic sewage and domestic sewage

	sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.
	Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.
	☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.
	$\square$ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.
	☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.
	☐ Facility is a POTW. Complete Worksheet 5.0.
	□ Domestic sewage is not generated on-site.
	$\square$ Other (e.g., portable toilets), specify and Complete Item 7.b: Click to enter text.
b.	Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility

which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the

name and TCEO Registration No. of the hauler.

#### Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Specialized Maintenance Services, Inc.	83853
Gulf Coast Waste Disposal Authority	WQ0001740000

# Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a. Is the permittee currently required to meet any implementation schedule for cenforcement?		
	□ Yes ⊠ No	
b.	Has the permittee completed or planned for any improvements or construction projects?	
	□ Yes ⊠ No	
c.	If <b>ves</b> to either 8.a <b>or</b> 8.b. provide a brief summary of the requirements and a status	

### Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

□ Yes ⊠ No

update: Click to enter text.

If **yes**, identify the tests and describe their purposes: Click to enter text.

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment**: Click to enter text.

### Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

□ Yes ⊠ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

- b. Attach the following information to the application:
  - List of wastes received (including volumes, characterization, and capability with on-site wastes).
  - Identify the sources of wastes received (including the legal name and addresses of the generators).
  - Description of the relationship of waste source(s) with the facility's activities.

Attachment: Click to enter text.

c.	Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?							
	□ Yes □ No							
	If <b>yes</b> , provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.							
	Attachment: Click to enter text.							
d.	Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?							
	□ Yes □ No							
If	yes, Worksheet 6.0 of this application is required.							
It	em 11. Radioactive Materials (Instru	ctions, Page 46)						
a.	Are/will radioactive materials be mined, used, stored,	or processed at this facility?						
	□ Yes ⊠ No							
	If <b>yes</b> , use the following table to provide the results or radioactive materials that may be present. Provide res	•						
Ra	dioactive Materials Mined, Used, Stored, or Processed							
R	adioactive Material Name	Concentration (pCi/L)						
b.	Does the applicant or anyone at the facility have any laradioactive materials may be present in the discharge radioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials in the source waters or on the facility have any laradioactive materials have any laradioactive mate	, including naturally occurring						
	If <b>yes</b> , use the following table to provide the results or radioactive materials that may be present. Provide resinformation provided in response to Item 11.a.							
Ra	dioactive Materials Present in the Discharge							
R	adioactive Material Name	Concentration (pCi/L)						

# Item 12. Cooling Water (Instructions, Page 46)

a.	Does the facility use or propose to use water for cooling purposes?										
		$\boxtimes$	Yes								
			No								
		☐ Decommissioned: Click to enter text.									
	☐ To Be Decommissioned: Click to enter text.										
	-		_		s 12.b thru						
							•		d and stop her		
	If to	be	decon	nmissio	<b>ned</b> , provid	e the	date oper	ation	is anticipated 1	to cea	ase and stop here.
b.	Cool	ling	g water	is/will l	be obtained	from	a ground	lwater	source (e.g., o	n-site	e well).
			Yes		No						
	If ye	es,	stop he	ere. If <b>n</b> o	, continue.						
c.	Coo	ling	g Water	Supplie	er						
					of the owne ooling purp		_		or the CWIS th	at su	pplies or will
Co	oling	Wa	ter Inta		ture(s) Own	er(s) a	ınd Operat	or(s)			
C	WIS 1	ID			0013A						
О	wnei	r			of Houston						
О	pera	tor		City	of Houston						
	2. (	Coo	ling wa	ater is/w	vill be obtai	ned fi	rom a Pub	lic Wa	ter Supplier (P	WS)	
				No	⊠ Yes;	PWS 1	No.: <u>PWS 1</u>	No. TX	1010013		
	I	f n	o, cont	inue. If <b>y</b>	y <b>es</b> , provide	the l	PWS Regis	stratio	n No. and stop	here	2.
	3. (	Coo	ling wa	ater is/w	vill be obtain	ned fi	rom a recl	laimed	water source?	)	
				No	□ Yes;	Auth	No.: Click	to ent	er text.		
	I	f n	o, cont	inue. If <b>y</b>	y <b>es</b> , provide	the l	Reuse Au	thoriza	ation No. and s	stop ]	here.
	4. (	Coo	ling wa	ater is/w	vill be obtai	ned fi	rom an In	depen	dent Supplier		
				No	□ Yes;	AIF:_C	lick to en	ter tex	ct.		
			-				_				ne Independent oses and proceed.
d.	316	(b)	Genera	l Criteri	a						
					to provide v intake flow No					cility	has or will have a

	2.	At least 25% of the total water withdrawn by the CWIS(s) is/will be used at the facility exclusively for cooling purposes on an annual average basis.
		□ Yes □ No
	3.	The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in <i>40 CFR §</i> 122.2.
		$\square$ Yes $\square$ No. Explanation: Click to enter text.
		If <b>no</b> , provide an explanation of how the waterbody does not meet the definition of Waters of the United States in 40 CFR § 122.2.
	-	to all three questions in Item 12.d, the facility <b>meets</b> the minimum criteria to be subject full requirements of Section 316(b) of the CWA. Proceed to <b>Item 12.f</b> .
be	sul	to any of the questions in Item 12.d, the facility <b>does not meet</b> the minimum criteria to eject to the full requirements of Section 316(b) of the CWA; however, a determination is red based upon BPJ. Proceed to <b>Item 12.e</b> .
e.		the facility does not meet the minimum requirements to be subject to the fill requirements Section 316(b) <b>and uses/</b> proposes <b>to use cooling towers</b> .
		Yes □ No
		<b>yes</b> , stop here. If <b>no</b> , complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to ow for a determination based upon BPJ.
f.	Oi	l and Gas Exploration and Production
	1.	The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.
		□ Yes □ No
		If <b>yes</b> , continue. If <b>no</b> , skip to Item 12.g.
	2.	The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).
		□ Yes □ No
		If <b>yes</b> , complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If <b>no</b> , skip to Item 12.g.3.
g.	Co	empliance Phase and Track Selection
	1.	Phase I - New facility subject to 40 CFR Part 125, Subpart I
		□ Yes □ No
		If <b>yes</b> , check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
		$\square$ Track I - AIF greater than 2 MGD, but less than 10 MGD
		• Attach information required by 40 CFR §§ 125.86(b)(2)-(4).
		□ Track I - AIF greater than 10 MGD
		<ul> <li>Attach information required by 40 CFR § 125.86(b).</li> </ul>

□ Track II
• Attach information required by 40 CFR § 125.86(c).
Attachment: Click to enter text.
2. Phase II - Existing facility subject to 40 CFR Part 125, Subpart J
□ Yes □ No
If <b>yes</b> , complete Worksheets 11.0 through 11.3, as applicable.
3. Phase III - New facility subject to 40 CFR Part 125, Subpart N
□ Yes □ No
If <b>yes</b> , check the box next to the compliance track selection and provide the requested information.
□ Track I – Fixed facility
• Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
☐ Track I - Not a fixed facility
• Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).
□ Track II – Fixed facility
• Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.
Attachment: Click to enter text.
Item 13. Permit Change Requests (Instructions, Page 48)
This item is only applicable to existing permitted facilities.
a. Is the facility requesting a <b>major amendment</b> of an existing permit?
⊠ Yes □ No
If <b>yes</b> , list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.
The Enterprise Houston Ship Channel Marine Loading facility is adding an additional refrigeration/export train to the site. The wastewater composition is expected to be similar to current wastewater discharges via Outfall 002 from the existing Train 3.
b. Is the facility requesting any <b>minor amendments</b> to the permit?  ☐ Yes ☑ No

, ,	
Click to enter	text.
Is the facility ro	equesting any <b>minor modifications</b> to the permit?
□ Yes	⊠ No
If <b>yes</b> , list and	describe each change individually.
Click to enter	text
chek to check	

### Item 14. Laboratory Accreditation (Instructions, Page 49)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25*, *Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

• The laboratory is an in-house laboratory and is:

If **ves**, list and describe each change individually.

- o periodically inspected by the TCEQ; or
- o located in another state and is accredited or inspected by that state; or
- o performing work for another company with a unit located in the same site; or
- performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

#### **CERTIFICATION:**

I certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

Printed Name: Click to enter text.
Title: Click to enter text.
Signature:
Date:

# Worksheet 1.0 EPA Effluent Guidelines

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet **is required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

	micai muusutes	(Instructions, P	age 53)
Is this facility subject	to any 40 CFR categorica	al ELGs outlined on pag	ge 53 of the instructions?
□ Yes ⊠ No			
If <b>no</b> , this worksheet i	is not required. If <b>yes</b> , pr	ovide the appropriate	information below.
40 CFR Effluent Guidel	ine		
Industry		4	0 CFR Part
Itam 2 Produc	-4 /D D-	/ <del>-</del>	
Itcili 2. I I buu	ction/Process Da	ta (Instructions	s, Page 54)
NOTE: For all TPDES pof oil and gas explora	permit applications reque tion and production was er the Oil and Gas Extract	esting individual perm tewater (discharges int	t coverage for discharges o or adjacent to water in
NOTE: For all TPDES J of oil and gas explora the state, falling unde	permit applications reque tion and production was er the Oil and Gas Extract	esting individual perm tewater (discharges int	t coverage for discharges o or adjacent to water in
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data	permit applications reque tion and production was er the Oil and Gas Extract	esting individual perm tewater (discharges int ion Effluent Guidelines	t coverage for discharges o or adjacent to water in s - 40 CFR Part 435), see
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data	permit applications reque tion and production was er the Oil and Gas Extract 2 instead.	esting individual perm tewater (discharges int ion Effluent Guidelines	t coverage for discharges o or adjacent to water in s - 40 CFR Part 435), see
NOTE: For all TPDES pof oil and gas explora the state, falling under Worksheet 12.0, Item  a. Production Data  Provide appropriate defined the state of the state	permit applications reque tion and production was er the Oil and Gas Extract 2 instead.	esting individual perm tewater (discharges int ion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate de Production Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.
NOTE: For all TPDES pof oil and gas explora the state, falling unde Worksheet 12.0, Item  a. Production Data Provide appropriate deproduction Data	permit applications requestion and production was er the Oil and Gas Extract 2 instead.	esting individual permitewater (discharges intion Effluent Guidelines	t coverage for discharges o or adjacent to water in s – 40 CFR Part 435), see ed effluent limitations.

		rcent of total production. I as required by <i>40 CFR Pa</i>	
Percentage of Total I	Percent of Total	Appendix A and B -	Appendix A -
Subcategory	Production	Metals	Cyanide
c. Refineries (40 (	CFR Part 419)		
Provide the applica	ble subcategory and a br	rief justification.	
Click to enter text.			
CHER to CHIEF text.			
		Wastewater Flow	s (Instructions,
Page	54)		
		generated by the facility, i	
		y which wastewater flows all practices for wastewate	
		or discharge under this per	
Click to enter text.			
Click to eliter text.	ł		
1			

b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)

## Item 4. New Source Determination (Instructions, Page 54)

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

**Wastewater Generating Processes Subject to Effluent Guidelines** 

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced

# Worksheet 2.0 Pollutant Analyses Requirements

## INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

## Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): Click to enter text.
- Check the box to confirm all samples were collected no more than 12 months prior to b. □ the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: Click to enter text.

## Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: Click to enter text.

#### TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: Click to enter	text. Samples	s are (check one	): 🗆 Composite	e 🛮 Grab
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

#### **TABLE 3 (Instructions, Page 58)**

**Completion** of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

**Partial completion** of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Epichlorohydrin (1-Chloro-2,3-epoxypropane)					
Ethylbenzene					10
Ethylene Glycol					
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
4,4'-Isopropylidenediphenol (bisphenol A)					1
Methyl ethyl ketone					50
Methyl tert-butyl ether (MTBE)					
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

<sup>(\*)</sup> Indicate units if different from µg/L.

#### **TABLE 4 (Instructions, Pages 58-59)**

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

Is this facility an industrial/commercial facility which currently or proposes to directly

#### a. Tributyltin

whic	ch c	e of wastewater from the types of operations listed below or a domestic facility currently or proposes to receive wastewater from the types of industrial/commercial ons listed below?
	]	Yes   No
•		check the box next to each of the following criteria which apply and provide the triate testing results in Table 4 below (check all that apply).
		Manufacturers and formulators of tributyltin or related compounds.
		Painting of ships, boats and marine structures.
		Ship and boat building and repairing.
		Ship and boat cleaning, salvage, wrecking and scaling.
	]	Operation and maintenance of marine cargo handling facilities and marinas.
	]	Facilities engaged in wood preserving.
		Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present

#### b. Enterococci (discharge to saltwater)

in the effluent.

This f	facility d	lischa	rges/	proposes	to dis	charge (	directl	y into sa	altwater r	receiving w	aters <b>and</b>
Enter	ococci b	acteri	a are	expected	to be	present	in the	dischai	rge based	l on facility	y processes

Yes	No

<sup>(\*\*)</sup> Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

Domestic wastewater is	/will be disch	narged.							
□ Yes □ No	)								
If <b>yes to either</b> question	n, provide the	appropr	iate te	esting re	esults i	n Tab	le 4 bel	ow.	
c. E. coli (discharge to fre	shwater)								
This facility discharges, <i>E. coli</i> bacteria are expe	proposes to								
□ Yes □ No	- )			J					
Domestic wastewater is	/will be disch	narged.							
□ Yes □ No	)								
If <b>yes to either</b> question	n, provide the	appropri	iate te	esting r	esults i	n Tab	le 4 bel	low.	
Table 4 for Outfall No.: Click	to enter text.	Sampl	es are	(check	one): 🗆	Co	mposite		Grab
Pollutant		mple 1		ple 2	Samp		Sampl		MAL
Tributyltin (μg/L)									0.010
Enterococci (cfu or MPN/1	.00 mL)								N/A
E. coli (cfu or MPN/100 ml	L)								N/A
TABLE 5 (Instructions, Page Completion of Table 5 is rewastewater from a facility wastewaters which may confirm this facility does not/will not/will not discharge other N/A  Table 5 for Outfall No.: Click	equired for a which manufa ntain pesticid I not manufac er wastewater	actures or les or herl cture or fo s that ma	form bicide ormul y cont	iulates j s. ate pes tain pes	pesticio ticides sticides	des or or he	herbic rbicides erbicide	ides of andes, ch	does eck N/A
Pollutant	Sample 1	Sample		(check Sampl			mposite ple 4	□ MA	Grab 1
Tonutunt	(μg/L)*	(μg/L)*		(μg/L)		(μg/	L)*	(μg/	
Aldrin								0.01	
Carbaryl								5	-
Chlordane								0.2	
Chlorpyrifos								0.05	)
4,4'-DDD								0.1	
4,4'-DDE								0.1	
4,4'-DDT								0.02	)
2,4-D								0.7	
Danitol [Fenpropathrin]								_	
Demeton								0.20	)

Diazinon

0.5/0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)*
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I ( <i>alpha</i> )					0.01
Endosulfan II ( <i>beta</i> )					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (alpha)					0.05
Hexachlorocyclohexane (beta)					0.05
Hexachlorocyclohexane (gamma) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

<sup>\*</sup> Indicate units if different from µg/L.

### TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (μg/L)*
Bromide							400
Color (PCU)							_
Nitrate-Nitrite (as N)							_
Sulfide (as S)							_
Sulfite (as SO3)							_
Surfactants							_
Boron, total							20
Cobalt, total							0.3
Iron, total							7
Magnesium, total							20
Manganese, total							0.5
Molybdenum, total							1
Tin, total							5
Titanium, total							30

#### **TABLE 7 (Instructions, Page 60)**

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

□ N/A

#### **Table 7 for Applicable Industrial Categories**

Ind	Industrial Category		CFR Volatiles Table 8		Aci Tal	ds ole 9	Nei	ses/ utrals ble 10		sticides ble 11
	Adhesives and Sealants			Yes		Yes		Yes	No	
	Aluminum Forming	467		Yes		Yes		Yes	No	
	Auto and Other Laundries			Yes		Yes		Yes		Yes
	Battery Manufacturing	461		Yes	No			Yes	No	
	Coal Mining	434	No		No		No		No	
	Coil Coating	465		Yes		Yes		Yes	No	
	Copper Forming	468		Yes		Yes		Yes	No	
	Electric and Electronic Components	469		Yes		Yes		Yes		Yes
	Electroplating	413		Yes		Yes		Yes	No	
	Explosives Manufacturing	457	No			Yes		Yes	No	
	Foundries			Yes		Yes		Yes	No	
	Gum and Wood Chemicals - Subparts A,B,C,E	454		Yes		Yes	No		No	
	Gum and Wood Chemicals - Subparts D,F	454		Yes		Yes		Yes	No	
	Inorganic Chemicals Manufacturing	415		Yes		Yes		Yes	No	
	Iron and Steel Manufacturing	420		Yes		Yes		Yes	No	
	Leather Tanning and Finishing	425		Yes		Yes		Yes	No	
	Mechanical Products Manufacturing			Yes		Yes		Yes	No	
	Nonferrous Metals Manufacturing	421,471		Yes		Yes		Yes		Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435		Yes		Yes		Yes	No	
	Ore Mining - Subpart B	440	No			Yes	No		No	
	Organic Chemicals Manufacturing	414		Yes		Yes		Yes		Yes
	Paint and Ink Formulation	446,447		Yes		Yes		Yes	No	
	Pesticides	455		Yes		Yes		Yes		Yes
	Petroleum Refining	419		Yes	No		No		No	
	Pharmaceutical Preparations	439		Yes		Yes		Yes	No	
	Photographic Equipment and Supplies	459		Yes		Yes		Yes	No	
	Plastic and Synthetic Materials Manufacturing	414		Yes		Yes		Yes		Yes
	Plastic Processing	463		Yes	No		No		No	
	Porcelain Enameling	466	No		No		No		No	
	Printing and Publishing			Yes		Yes		Yes		Yes
	Pulp and Paperboard Mills - Subpart C	430		*		Yes		*		Yes
	Pulp and Paperboard Mills - Subparts F, K	430		*		Yes		*		*
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430		Yes		Yes		*		*
	Pulp and Paperboard Mills - Subparts I, J, L	430		Yes		Yes		*		Yes
	Pulp and Paperboard Mills - Subpart E	430		Yes		Yes		Yes		*
	Rubber Processing	428		Yes		Yes		Yes	No	
	Soap and Detergent Manufacturing	417		Yes		Yes		Yes	No	
	Steam Electric Power Plants	423		Yes		Yes	No		No	
	Textile Mills (Not Subpart C)	410		Yes		Yes		Yes	No	
	Timber Products Processing	429		Yes		Yes		Yes		Yes

<sup>\*</sup> Test if believed present.

#### TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
[Tetrachloroethene]  Toluene  1,2-Trans-dichloroethylene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

<sup>\*</sup> Indicate units if different from µg/L.

Table 9 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

<sup>\*</sup> Indicate units if different from µg/L.

Table 10 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

<sup>\*</sup> Indicate units if different from µg/L.

Table 11 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
		1	1	1	1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (μg/L)
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

<sup>\*</sup> Indicate units if different from µg/L.

Attachment: Click to enter text.

#### TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- $\square$  2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- □ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3
- □ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- □ hexachlorophene (HCP) CASRN 70-30-4
- □ None of the above

Description: Click to enter text.

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

□ Yes □ No

Description: Click to enter text.

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): ☐ Composite ☐ Grab

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8- PeCDD	1.0					50
2,3,7,8- HxCDDs	0.1					50
1,2,3,4,6,7,8- HpCDD	0.01					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8- PeCDF	0.03					50
2,3,4,7,8- PeCDF	0.3					50
2,3,7,8- HxCDFs	0.1					50
2,3,4,7,8- HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						
<b>ΓABLE 13 (HAZ</b> Complete Table 50-61)		ŕ	<b>l outfalls</b> as di	rected below. (Ins	structions, Pag	es

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

Yes □ No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

Yes □ No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

# Worksheet 4.0 Receiving Waters

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet is required for all TPDES permit applications.

# Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a.	There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.
	□ Yes ⊠ No
	If <b>no</b> , stop here and proceed to Item 2. If <b>yes</b> , provide the following information:
	1. The legal name of the owner of the drinking water supply intake: <u>Click to enter text.</u>
	2. The distance and direction from the outfall to the drinking water supply intake: <u>Click to enter text.</u>
b.	Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.
	☐ Check this box to confirm the above requested information is provided.
It	em 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)
	the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to em 3.
a.	Width of the receiving water at the outfall: 1,475 feet
b.	Are there oyster reefs in the vicinity of the discharge?
	□ Yes ⊠ No
	If <b>yes</b> , provide the distance and direction from the outfall(s) to the oyster reefs: <u>Click to enter text.</u>
c.	Are there sea grasses within the vicinity of the point of discharge?
	□ Yes ⊠ No
	If <b>yes</b> , provide the distance and direction from the outfall(s) to the grasses: $\frac{\text{Click to enter}}{\text{text.}}$
It	em 3. Classified Segment (Instructions, Page 80)
Th	ne discharge is/will be directly into (or within 300 feet of) a classified segment.
If ·	■ Yes □ No  ves. stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.
11	via, and many and and any non-companies in mark and a to this workshill of the workshift that.

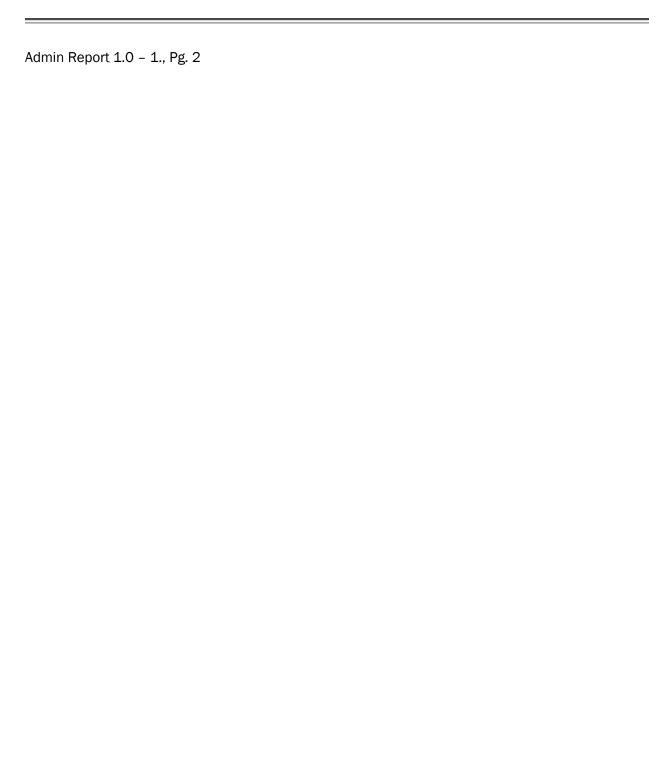
If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

# Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

		(Instructions, Page 80)
a.	Naı	me of the immediate receiving waters: <u>Click to enter text.</u>
b.	Che	eck the appropriate description of the immediate receiving waters:
		Lake or Pond
		• Surface area (acres): <u>Click to enter text.</u>
		• Average depth of the entire water body (feet): <u>Click to enter text.</u>
		• Average depth of water body within a 500-foot radius of the discharge point (feet): <u>Click to enter text.</u>
		Man-Made Channel or Ditch
		Stream or Creek
		Freshwater Swamp or Marsh
		Tidal Stream, Bayou, or Marsh
		Open Bay
		Other, specify:
		<b>-Made Channel or Ditch</b> or <b>Stream or Creek</b> were selected above, provide responses to 4.c – 4.g below:
c.		existing discharges, check the description below that best characterizes the area stream of the discharge.
		new discharges, check the description below that best characterizes the area wnstream of the discharge.
		☐ Intermittent (dry for at least one week during most years)
		☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)
		☐ Perennial (normally flowing)
		eck the source(s) of the information used to characterize the area upstream (existing charge) or downstream (new discharge):
		□ USGS flow records
		personal observation
		historical observation by adjacent landowner(s)
		other, specify: <u>Click to enter text.</u>
d.		t the names of all perennial streams that join the receiving water within three miles wnstream of the discharge point: <u>Click to enter text</u> .
e.		e receiving water characteristics change within three miles downstream of the discharge g., natural or man-made dams, ponds, reservoirs, etc.).
		⊠ Yes □ No

	If y	es, describe how: Click to enter text.						
f.	tim	neral observations of the water body during e of observation: The water body was influe ervations.						
		□ Yes □ No						
	If y	es, describe how: Click to enter text.						
It	em	5. General Characteristics of Page 81)	Wa	ater Body (Instructions,				
a.		he receiving water upstream of the existing uenced by any of the following (check all the						
		oil field activities		urban runoff				
		agricultural runoff		septic tanks				
		upstream discharges		other, specify: <u>Click to enter text.</u>				
b.	Use	s of water body observed or evidence of suc	ch us	es (check all that apply):				
		livestock watering		industrial water supply				
		non-contact recreation		irrigation withdrawal				
		domestic water supply		navigation				
		contact recreation		picnic/park activities				
		fishing		other, specify: <u>Click to enter text.</u>				
c.		cription which best describes the aesthetics a (check only one):	of tl	ne receiving water and the surrounding				
		<b>Wilderness:</b> outstanding natural beauty; us clarity exceptional	sually	y wooded or un-pastured area: water				
		Natural Area: trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored						
		<b>Common Setting:</b> not offensive, developed turbid	l but	uncluttered; water may be colored or				
		<b>Offensive:</b> stream does not enhance aesthe areas; water discolored	etics;	cluttered; highly developed; dumping				

# Attachment A Copy of Fee Submittal



6/13/25, 10:14 AM TCEQ ePay

Questions or Comments >>

Shopping Cart Select Fee Search Transactions Sign Out

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

#### **Transaction Information**

**Trace Number:** 582EA000672274

Date: 06/13/2025 10:14 AM

Payment Method: CC - Authorization 0000038106

**ePay Actor:** DANIEL BISSONNETTE **Actor Email:** dmbissonnette@eprod.com

**IP:** 50.58.14.5

TCEQ Amount: \$350.00 Texas.gov Fee: \$8.13 Texas.gov Price: \$358.13\*

#### **Payment Contact Information**

Name: DANIEL BISSONNETTE

**Company:** ENTERPRISE PRODUCTS OPERATING LLC **Address:** 1100 LOUISIANA STREET, HOUSTON, TX 77002

Phone: 713-381-3669

#### Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount	
770826	WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT		\$300.00	
770827	30 TAC 305.53B WQ NOTIFICATION FEE	TCEQ Amount:	\$50.00 \$350.00	
				1

ePay Again Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

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<sup>\*</sup> This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

## Attachment B Core Data Form and PIP Form





## **TCEQ Core Data Form**

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

#### **SECTION I: General Information**

1. Reason for Submission (If other is checked please describe in space provided.)

_													
New Pern	nit, Registra	tion or A	Authorization	(Core Data Form	should be s	submitte	ed with	n the prog	ram application.)				
Renewal	(Core Data I	Form sho	ould be submi	tted with the ren	ewal form)			⊠ o	ther <b>Major A</b> i	mendme	nt		
2. Customer	Reference	Numb	er (if issued)	_	ollow this li			3. Re	gulated Entity Re	ference	Number (if	issued)	
CN 603211277 Central Registry** RN 1025						102580834							
ECTIO	N II:	<u>Cus</u>	<u>tomer</u>	Inform	<u>ation</u>	<u>L</u>							
4. General Cu	ıstomer In	format	tion	5. Effective D	ate for Cu	ıstome	r Info	rmation	Updates (mm/dd/	уууу)			
☐ New Custon☐ Change in Lo		Verifiab		I Ipdate to Custom xas Secretary of S			ptrolle	_	nge in Regulated En	tity Owne	ership		
The Custome (SOS) or Texa			-	-	tomaticall	ly base	d on v	what is c	urrent and active	with th	e Texas Sec	retary of State	
6. Customer	Legal Nam	e (If an	individual, pri	nt last name first	:: eg: Doe, J	ohn)			If new Customer,	enter pre	vious Custom	ner below:	
Enterprise Prod	ducts Opera	ting LLC											
7. TX SOS/CP	A Filing N	umber		8. TX State Ta	<b>ax ID</b> (11 di	igits)			9. Federal Tax ID 10. DUNS Number (if				
0800838920	0800838920 12604			12604305396	2604305396				(9 digits)		applicable)		
11. Type of C	ustomer:		☐ Corpora	tion				☐ Individ	dual	Partne	rship: 🔲 Ger	neral 🔲 Limited	
		County [	Federal	Local State	Other			Sole P	roprietorship	Otl	her:		
12. Number	of Employ	ees					ı		13. Independe	ntly Ow	ned and Op	erated?	
0-20	21-100	] 101-2	250 251-	-500 🛭 501 a	nd higher				⊠ Yes	□ No			
14. Customer	r <b>Role</b> (Pro	posed or	r Actual) – <i>as i</i>	t relates to the R	egulated Er	ntity list	ed on t	this form.	Please check one of	the follo	wing		
Owner Occupation	al Licensee		perator Responsible Pa	_	ier & Opera CP/BSA App				Other:				
15. Mailing	P.O. Box 4	1324											
Address:													
, .ww. c33.	City	Houst	on		State	TX		ZIP	77210		ZIP + 4	4324	
16. Country I	Mailing Inf	ormati	ion (if outside	USA)			17.	E-Mail A	ddress (if applicabl	le)	ı		
							environmental@eprod.com						

TCEQ-10400 (11/22) Page 1 of 3

(713)381-6595							( )	-		
SECTION III: I	Regula	ted Ent	ity Inform	nation	<u>1</u>	•				
21. General Regulated En						applica	tion is also	required.)		
☐ New Regulated Entity [	Update to	Regulated Entity	Name  Update t	o Regulated	Entity	Inform	ation			
The Regulated Entity Nan as Inc, LP, or LLC).	ne submitte	d may be upda	ted, in order to med	et TCEQ Co	re Da	ta Star	ndards (re	moval of o	rganization	al endings such
22. Regulated Entity Nam	e (Enter nam	e of the site wher	re the regulated action	is taking pl	ace.)					
Enterprise Products Operatin	g LLC									
23. Street Address of	15602 Jacin	toport Boulevard								
the Regulated Entity:										
(No PO Boxes)	City	Houston	State	TX	ZIP	•	77015		ZIP + 4	
24. County	Harris	<u> </u>		1						1
		If no Stre	et Address is provid	led, fields	25-28	are re	quired.			
25. Description to										
Physical Location:										
26. Nearest City							State		Nea	rest ZIP Code
Latitude/Longitude are reused to supply coordinate  27. Latitude (N) In Decima	es where no	-	-	accuracy).			ords. (Geo		ne Physical	Address may be
Degrees	Minutes		Seconds	Degr	ees		N	linutes		Seconds
29		44	24		Ç	95		7		54
29. Primary SIC Code (4 digits)		Secondary SIC	Code	<b>31. Prima</b> (5 or 6 dig	-	ICS Co	de	<b>32. Seco</b> (5 or 6 dig	ondary NAIO	CS Code
4491										
33. What is the Primary B	Business of t	his entity? (D	o not repeat the SIC or	NAICS desc	ription	.)				
Natural Gas Liquid product tr	ansfer faci					_				
34. Mailing	P.O. Box 43	324								
Address:										
Address.	City	Houston	State	тх	;	ZIP	77210		ZIP + 4	
35. E-Mail Address:	envi	ronmental@epr	od.com	1						1
36. Telephone Number			37. Extension or	Code		38. F	ax Numbe	er (if applicat	ble)	
(713)381-6595						(	) -			

19. Extension or Code

20. Fax Number (if applicable)

18. Telephone Number

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☐ Dam Safety	Districts	Edwards Aquifer	Emissions Inventory Air	Industrial Hazardous Waste
☐ Municipal Solid Waste	⊠ New Source Review Air	OSSF	Petroleum Storage Tank	☐ PWS
Sludge	Storm Water	☐ Title V Air	Tires	Used Oil
☐ Voluntary Cleanup	☑ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	Other:

#### **SECTION IV: Preparer Information**

40. Name:	Michael Chastant			41. Title: Staff Engineer, Environmental		
42. Telephone Number 43. Ext./Code		44. Fax Number	45. E-Mail Address			
(713)381-6617		( ) -	mdchastant1@eprod.com			

#### **SECTION V: Authorized Signature**

**46.** By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Enterprise Products Operating LLC	Job Title:	Senior Director		
Name (In Print):	Bradley J. Cooley		Phone:	(713) 381-6595	
Signature:	11		Date:	07/03/2025	

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### Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening
New Permit or Registration Application New Activity – modification, registration, amendment, facility, etc. (see instructions)
If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.
Section 2. Secondary Screening
Requires public notice,
Considered to have significant public interest, <u>and</u>
\times Located within any of the following geographical locations:
• Austin
• Dallas
<ul><li>Fort Worth</li><li>Houston</li></ul>
San Antonio
West Texas
Texas Panhandle
<ul> <li>Along the Texas/Mexico Border</li> <li>Other geographical locations should be decided on a case-by-case basis</li> </ul>
,
If all the above boxes are not checked, a Public Involvement Plan is not necessary.  Stop after Section 2 and submit the form.
Public Involvement Plan not applicable to this application. Provide <b>brief</b> explanation.
Even though the facility is in a geographical location (Houston), it is in an industrialized area, and we believe that there will be no public involvement. In addition, public notice requirements for TPDES applications, the Notice of Receipt of Application and Intent to Obtain Permit (NORI) and the Notice of Application and Preliminary Decision (NAPD) will offer an opportunity for public involvement.

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Section 3. Application Information
Type of Application (check all that apply):
Air Initial Federal Amendment Standard Permit Title V
Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire Radioactive Material Licensing Underground Injection Control
Water Quality
Texas Pollutant Discharge Elimination System (TPDES)
Texas Land Application Permit (TLAP)
State Only Concentrated Animal Feeding Operation (CAFO)
Water Treatment Plant Residuals Disposal Permit
Class B Biosolids Land Application Permit
Domestic Septage Land Application Registration
Water Rights New Permit
New Appropriation of Water
New or existing reservoir
Amendment to an Existing Water Right
Add a New Appropriation of Water
Add a New or Existing Reservoir
Major Amendment that could affect other water rights or the environment
Section 4. Plain Language Summary
Provide a brief description of planned activities.

TCEQ-20960 (02-09-2023)

Section 5. Community and Demographic Information
Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.
Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.
(City)
(County)
(Census Tract) Please indicate which of these three is the level used for gathering the following information.  City  County  Census Tract
(a) Percent of people over 25 years of age who at least graduated from high school
(b) Per capita income for population near the specified location
(c) Percent of minority population and percent of population by race within the specified location
(d) Percent of Linguistically Isolated Households by language within the specified location
(e) Languages commonly spoken in area by percentage
(f) Community and/or Stakeholder Groups
(g) Historic public interest or involvement

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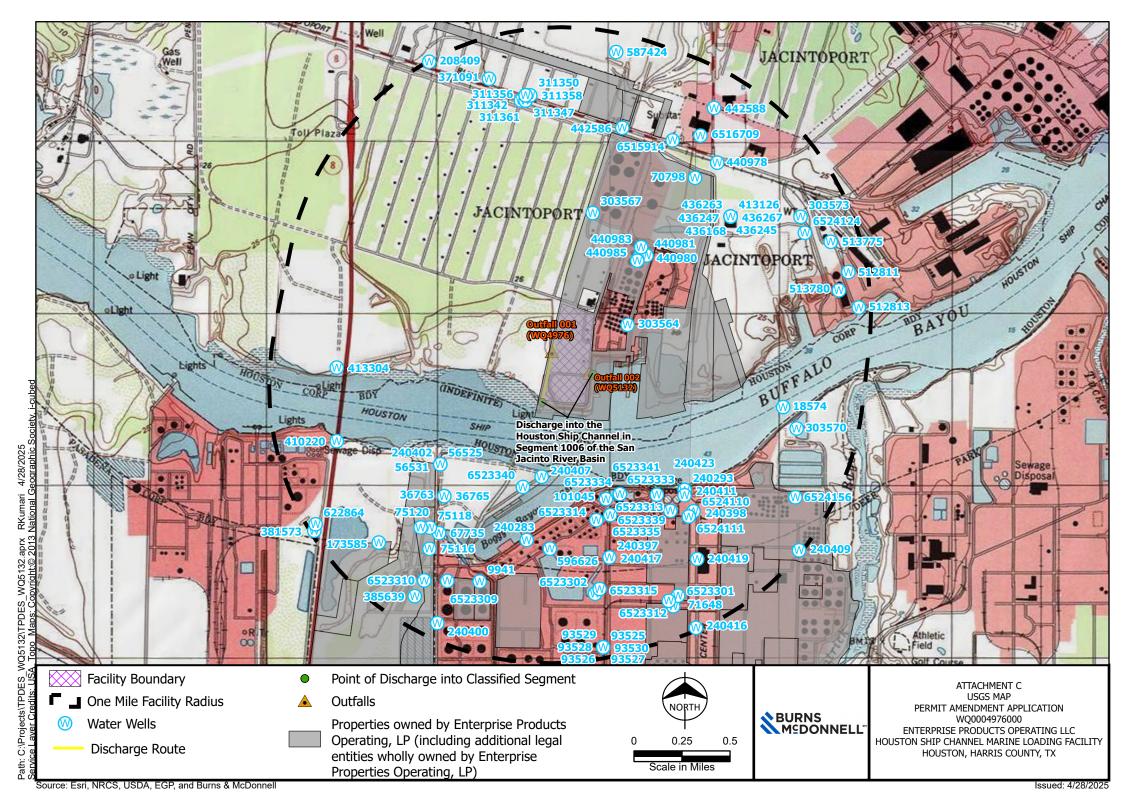
Section 6. Planned Public Outreach Activities
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?  Yes No  No  Yes No  No
If Yes, please describe.
If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.
(c) Will you provide notice of this application in alternative languages?  Yes No
Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.
If yes, how will you provide notice in alternative languages?
Publish in alternative language newspaper
Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)
(d) Is there an opportunity for some type of public meeting, including after notice?  Yes No
(e) If a public meeting is held, will a translator be provided if requested?
Yes No
(f) <u>Har</u> d copies of the application <u>will</u> be available at the following (check all that apply):
TCEQ Regional Office TCEQ Central Office
Public Place (specify)
Section 7. Voluntary Submittal
For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.
Will you provide notice of this application, including notice in alternative languages?  Yes No
What types of notice will be provided?
Publish in alternative language newspaper
Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)

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# Attachment C USGS Map

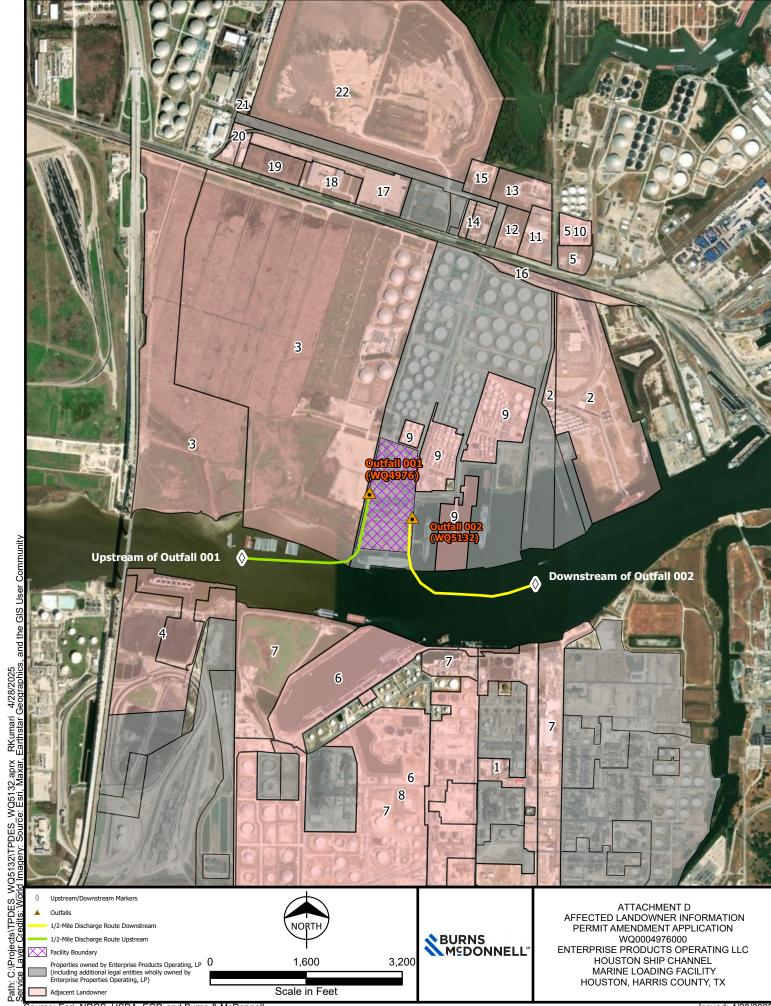
Map, Cross Reference List, Mailing List

Admin Report 1.1 - 1.a., 1.b., 1.c., Pg. 14



## Attachment D Adjacent Landowners Map

Admin Report 1.1 – 2., Pg. 15



MAPID	OWNER NAME	ADDRESS	CITY	STATE	ZIP CODE
1	DEER PARK REFINING LTD PTR	5600 HIGHWAY 225	DEER PARK	TX	77536
2	STOLT NIELSEN INC	15635 JACINTOPORT BLVD	HOUSTON	TX	77015
3	PORT OF HOUSTON AUTHORITY	15500 JACINTOPORT BLVD	HOUSTON	TX	77015
4	KINDER MORGAN PETCOKE LP	4207 LA PORTE FWY	HOUSTON	TX	77536
5	HFOTCO LLC	1201 S SHELDON RD	HOUSTON	TX	77015
6	SHELL OIL CO	5600 LA PORTE FWY	HOUSTON	TX	77536
7	DEER PARK REFINNING LP	5600 HIGHWAY 225	DEER PARK	TX	77536
8	OXY VINYLS LP	5600 HIGHWAY 225	HOUSTON	TX	77536
9	STOLT TERMINAL HOUSTON INC	15602 JACINTOPORT BLVD	HOUSTON	TX	77015
10	PETROMAX REFINING CO LLC	1519 S SHELDON RD	HOUSTON	TX	77015
11	BROADSTONE IKGTX LLC	PO BOX 310	CHANNELVIEW	TX	77015
12	CENTERPOINT ENERGY HOU ELE	0 JACINTOPORT BLVD	HOUSTON	TX	77015
13	SOUTH SHELDON ROAD LP	1414 SOUTH SHELDON RD	HOUSTON	TX	77015
14	STOLT-NIELSEN TRANSPORTATION GROUP INC	15635 JACINTOPORT BLVD	HOUSTON	TX	77015
15	ETOCO LP	333 CLAY ST STE 3650	HOUSTON	TX	77015
16	STOLTHAVEN HOUSTON INC	15602 JACINTOPORT BLVD	HOUSTON	TX	77015
17	CONTANDA JACINTOPORT STEEL 2 LLC	1111 BAGBY ST FL 18	HOUSTON	TX	77015
18	BESHERT PARTNERS LLC	6000 JENSEN DR	HOUSTON	TX	77015
19	STEIN INDUSTRIAL PARTNERS II LLC	6000 JENSEN DR	HOUSTON	TX	77015
20	JOHN W STONE OIL DISTRIBUTOR LLC	1601 BELLE CHASE HWY	HOUSTON	TX	77015
21	WEDTECH INC	2222 APPELT DR	HOUSTON	TX	77015
22	TDWP TERMINALS 2 LLC	811 MAIN ST STE 2800	HOUSTON	TX	77015

DEER PARK REFINING LTD PTR 5600 HIGHWAY 225 HOUSTON, TX 77015  KINDER MORGAN PETCOKE LP 4207 LA PORTE FWY HOUSTON, TX 77015	STOLT NIELSEN INC 15635 JACINTOPORT BLVD HOUSTON, TX 77015  HFOTCO LLC 1201 S SHELDON RD HOUSTON, TX 77015	PORT OF HOUSTON AUTHORITY 15500 JACINTOPORT BLVD HOUSTON, TX 77015  SHELL OIL CO 5600 LA PORTE FWY HOUSTON, TX 77536
DEEP PARK REFINING LP	OXY VINYLS LP	STOLT TERMINAL HOUSTON INC
5600 HIGHWAY 225	5600 HIGHWAY 225	15602 JACINTOPORT BLVD
DEER PARK, TX 77536	HOUSTON, TX 775	HOUSTON, TX 77015
PETROMAX REFINING CO LLC	BROADSTONE IKGTX LLC	CENTERPOINT ENERGY HOU ELE
1519 S SHELDON RD	PO BOX 310	0 JACINTOPORT BLVD
HOUSTON, TX 77015	CHANNELVIEW, TX 77015	HOUSTON, TX 77015
SOUTH SHELDON ROAD LP 1414 SOUTH SHELDON RD HOUSTON, TX 77015	STOLT-NIELSEN TRANSPORTATION GROUP INC 15635 JACINTOPORT BLVD HOUSTON, TX 77015	ETOCO LP 333 CLAY ST STE 3650 HOUSTON, TX 77015
STOLTHAVEN HOUSTON INC	CONTANDA JACINTOPORT STEEL 2 LLC	BESHERT PARTNERS LLC
15602 JACINTOPORT BLVD	1111 BAGBY ST FL 18	6000 JENSEN DR
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77015
STEIN INDUSTRIAL PARTNERS II LLC	JOHN W STONE OIL DISTRIBUTOR LLC	WEDTECH INC
6000 JENSEN DR	1601 BELLE CHASE HWY	2222 APPELT DR
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77015
TDWP TERMINALS 2 LLC 811 MAIN ST STE 2800 HOUSTON, TX 77015		

## Attachment E Original Photographs

SPIF 8., Pg. 17



Photo 1

Outfall 001 (WQ4976), upstream facing north toward the Enterprise property. Culverts convey stormwater from the adjacent industrial complex to the fence/beginning of the ditch. Outfall 001 is piped to this location.

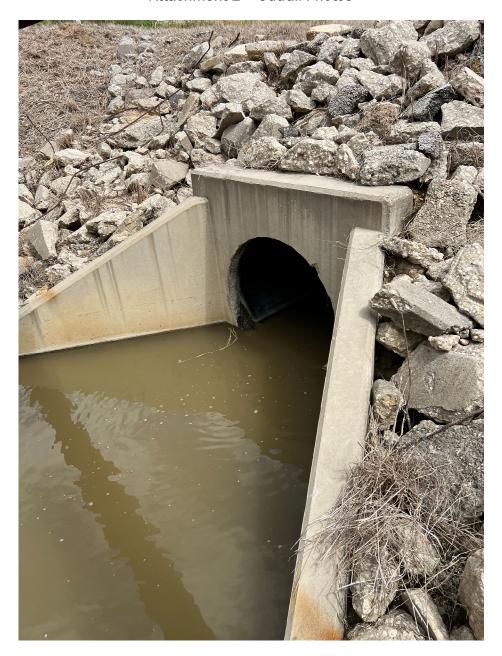


Photo 2
Outfall 001 (WQ4976), close up photo of the culvert.



Photo 3

Outfall 001 (WQ4976), at the point of discharge where the drainage ditch enters into the Houston Ship Channel, facing north.



Photo 4
Outfall 002 (WQ5132), at the discharge pipe into the Houston Ship Channel, facing east.

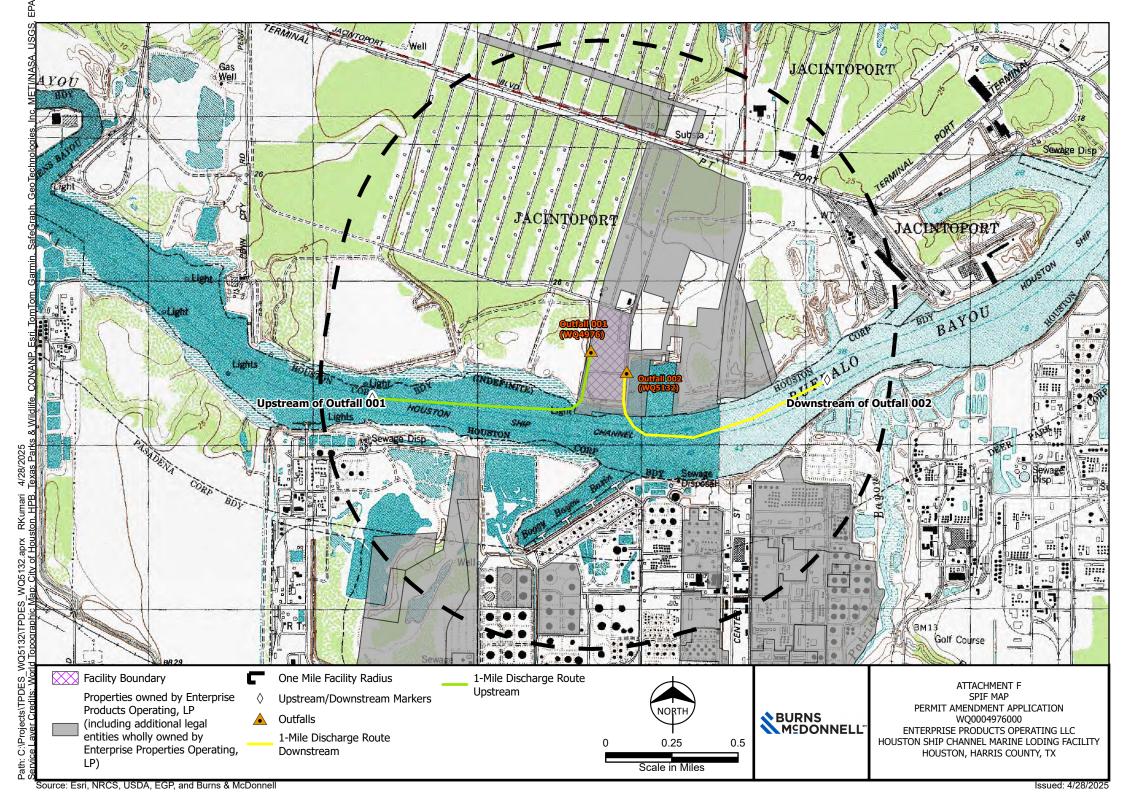


Photo 4
Outfall 002 (WQ5132), at the discharge pipe into the Houston Ship Channel, facing west.



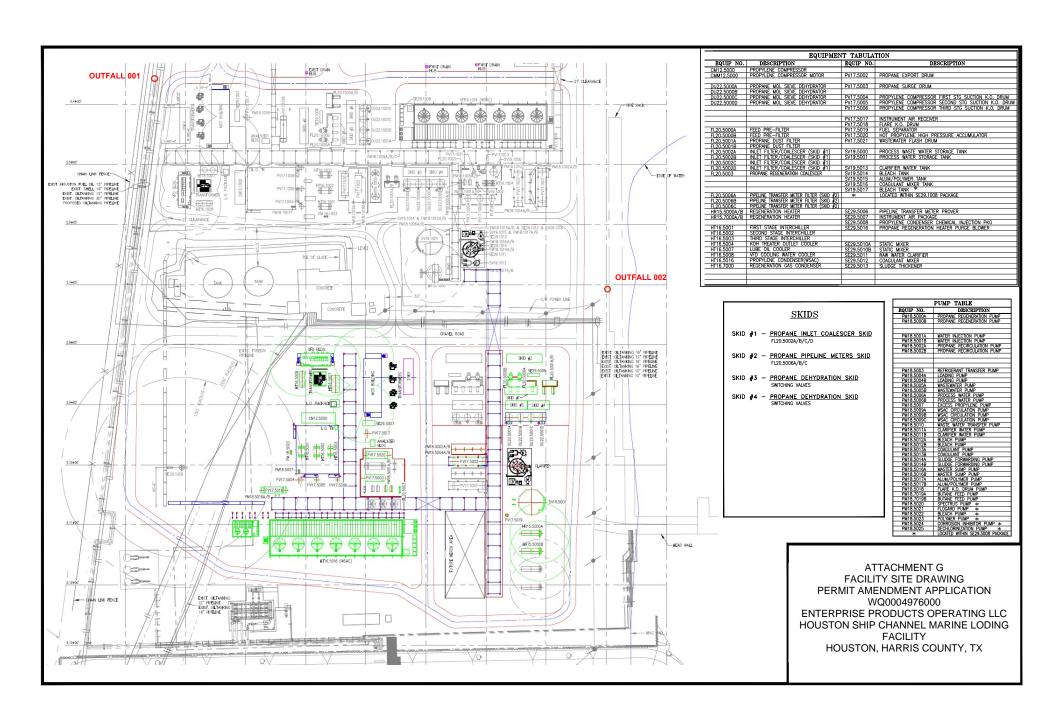
## Attachment F SPIF Map

Tech Report 1.0 - 1.e., Pg. 2



# Attachment G Facility Layout Drawings

Tech Report 1.0 – 2.b., Pg. 3



# Attachment H Facility Outfall Locations and Flow Schematics

Tech Report 1.0 – 5.c., Pg. 9		

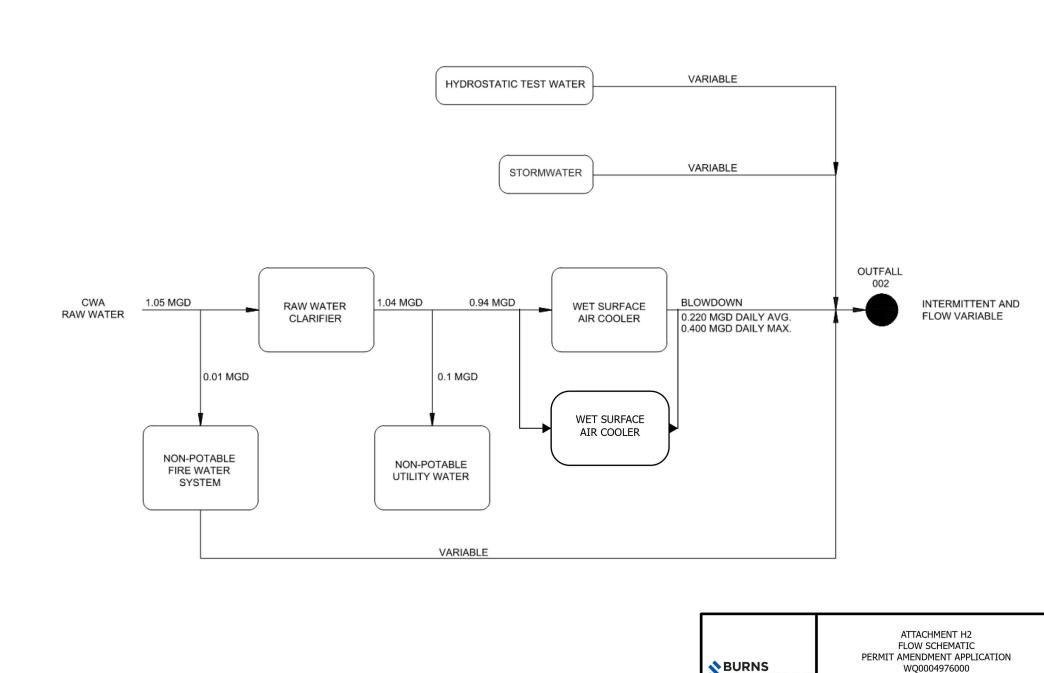


Scale in Miles

Source: Esri, NRCS, USDA, EGP, and Burns & McDonnell

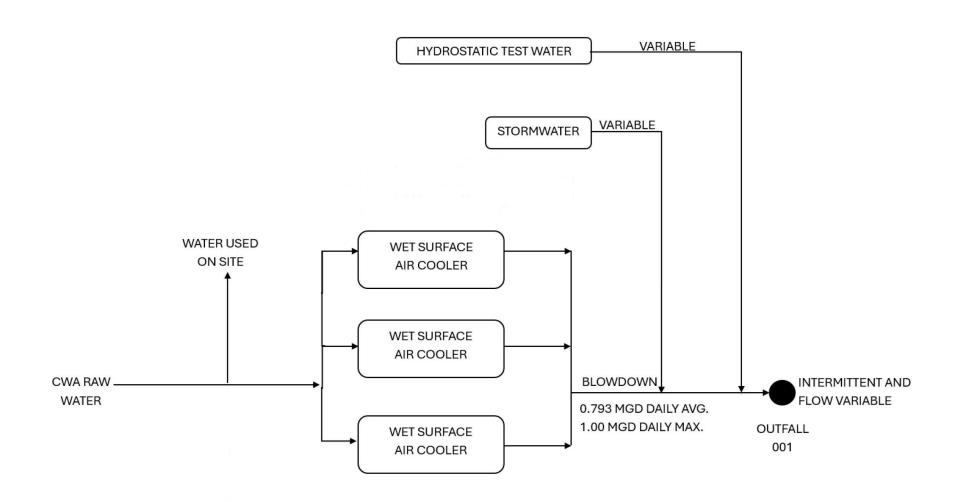
Issued: 6/26/2025

HOUSTON, HARRIS COUNTY, TX



SBURNS MEDONNELL\*

ENTERPRISE PRODUCTS OPERATING LLC HOUSTON SHIP CHANNEL MARINE LOADING FACILITY HOUSTON, HARRIS COUNTY, TX





ATTACHMENT H2
FLOW SCHEMATIC
PERMIT AMENDMENT APPLICATION
WQ0004976000
ENTERPRISE PRODUCTS OPERATING LLC
HOUSTON SHIP CHANNEL MARINE LOADING FACILITY
HOUSTON, HARRIS COUNTY, TX

# Enterprise Products Operating LLC Houston Ship Channel Marine Loading Facility Attachment I – Chemical Additives

Enterprise Products Operating LLC (Enterprise) owns and operates the Houston Ship Channel Marine Facility at 15602 Jacintoport Boulevard and Sam Houston Tollway, in the City of Houston, Harris County, Texas (Facility). With this application for amendment with renewal for TPDES Permit No. WQ00049760000 Enterprise is including the attached Safety Data Sheets (SDS) for chemical additives currently utilized in raw water treatment, and boiler and cooling water systems at the Facility. Chemical additives may be changed depending on conditions and operations. If other additives are utilized at the Facility the additives will likely be like those currently in use and Enterprise will provide copies of those SDS to TCEQ.

All chemical additives will be utilized in accordance with the manufacturer's recommendations.

Chemical Additive	Use	Outfall(s)	Dosage Rate (ppm)
ChemTreat CL456	Cooling Water Treatment	001, 002	2-6
LIQUICHLOR® 12.5%	Industrial chemical	001, 002	2-6
ChemTreat P893L	Water Clarification Agent	001, 002	5-15
ChemTreat CL4132	Cooling Water Treatment	001, 002	5-15
ChemTreat CL5644	Cooling Water Treatment	001, 002	70-80
ChemTreat BL124	Cooling Water Treatment	001, 002	2-6
ChemTreat CL4512	Cooling Water Treatment	001, 002	80-120
ChemTreat CL3857	Cooling Water Treatment	001, 002	40-60
ChemTreat SULFURIC ACID 93%	Industrial Chemical	001, 002	100-140
ChemTreat P813E	Water Clarification Agent	001,002	0.5-1

NOTES: Dosages and MSDS sheets are provided for each additive currently in use in WSAC units. Chemical additives may be changed depending on conditions and operations. However, new additives are likely to be like those currently in use, and all additives will be utilized in accordance with the manufacturer's recommendations. If new chemical additives are selected, copies of the MSDS sheets will be provided to the commission.





### SAFETY DATA SHEET

#### Section 1. Chemical Product and Company Identification

Product Name: ChemTreat CL456

**Product Use:** Cooling Water Treatment

Supplier's Name: ChemTreat, Inc.

**Emergency Telephone Number:** (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

**Telephone Number for Information:** (800)648–4579 **Date of SDS:** July 18, 2019 **Revision Date:** July 18, 2019

Revision Number: 19071801AN

#### Section 2. Hazard(s) Identification

Signal Word: None

GHS Classification(s): Non-Hazardous Substance

Hazard Statement(s): Non-Hazardous Substance

**Precautionary Statement(s):** No significant health risks are expected from exposures under

normal conditions of use.

**Prevention:** None.

Response: None.

Storage: None.

**Disposal:** None.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Hazards Not Otherwise** 

Classified:

None.





#### Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Components not listed are either non hazardous or in concentration of	N/A	N/A
less than 1%		

Comments If chemical identity and/or exact percentage of composition has been

withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a poison center or doctor/physician if you feel

unwell.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye

irritation persists, get medical advice/attention.

**Skin:** Wash with plenty of soap and water. Call a poison center or

doctor/physician if you feel unwell.

**Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician if you feel unwell.

Most Important Symptoms: N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

**Necessary:** 

N/A

### Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

**Suitable Extinguishing Media:** Use extinguishing media suitable to surrounding fire.

**Specific Hazards Arising from** 

the Chemical:

None known.





**Protective Equipment:** If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

#### Section 6. Accidental Release Measures

**Personal Precautions:** Use appropriate Personal Protective Equipment (PPE).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: None.

#### Section 7. Handling and Storage

**Handling:** Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only.

Store above Freeze Point.

#### Section 8. Exposure Controls/Personal Protection

#### **Exposure Limits**

Component	Source	Exposure Limits
Components not listed are either non hazardous or in	N/E	N/E
concentration of less than 1%		

**Engineering Controls:** Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.





#### **Personal Protection**

**Eyes:** Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

**Skin:** Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

**Respiratory:** If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.

#### Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, Colorless, Clear

Specific Gravity: 1.005 @ 20°C

pH: 7.0 @ 20°C, 100.0%

Freezing Point: 37°F
Flash Point: >200°F
Odor: Mild
Melting Point: N/A
Initial Boiling Point and Boiling Range: 212°F
Solubility in Water: Complete

Evaporation Rate: N/D
Vapor Density: N/D
Molecular Weight: N/D

Viscosity: <100 CPS @ 20°C

Flammability (solid, gas):

Flammable Limits:

Autoignition Temperature:

N/A

Density: 8.38 LB/GA

Vapor Pressure:

% VOC:

Odor Threshold

n-octanol Partition Coefficient

Decomposition Temperature

N/D





#### Section 10. Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various** 

**Substances:** 

Strong oxidizers.

**Hazardous Decomposition** 

**Products:** 

None known.

**Possibility of Hazardous** 

Reactions:

None known.

Reactivity: N/D

Conditions To Avoid: N/D

### Section 11. Toxicological Information

#### **Acute Toxicity**

Chemical Name	Exposure	Type of Effect	Concentration	Species
N/D	N/D	N/D	N/D	N/D

#### **Carcinogenicity Category**

Component	Source	Code	Brief Description
Components not listed are either non hazardous or in	N/E	N/E	N/E
concentration of less than 1%			

Likely Routes of Exposure: N/D

**Symptoms** 

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D





Serious Eye Damage/Eye

Irritation:

N/D

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental

Toxicity:

N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D

Repeated Exposure: N/D

**Aspiration Hazard:** N/D

Comments: None.

## Section 12. Ecological Information

## **Ecotoxicity**

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	8.9 mg/l
Fathead Minnow	96h	LC50	10.8 mg/l

Persistence and

**Biodegradability:** 

N/D

**Bioaccumulative Potential:** N/D

Mobility In Soil: N/D

Other Adverse Effects: N/D

Comments: None.





## Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

## Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
IMDG	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
ICAO	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
TDG	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			

Note: N/A

## Section 15. Regulatory Information

**Inventory Status** 

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

**Federal Regulations** 

**SARA Title III Rules** 

**Sections 311/312 Hazard Classes** 

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

No





## **Other Sections**

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Components not listed are either non hazardous or in	N/A	N/A	N/A
concentration of less than 1%			

Comments: None.

**State Regulations** 

California Proposition 65: None known.

**Special Regulations** 

Component	States
Components not listed are either non hazardous or in	None.
concentration of less than 1%	

## **Compliance Information**

NSF: N/A

Food Regulations: N/A

**KOSHER:** This product has not been evaluated for Kosher approval.

**Halal:** This product has not been evaluated for Halal approval.

FIFRA: N/A

Other: None

Comments: None.

## Section 16. Other Information

## **HMIS Hazard Rating**

Health: 1
Flammability: 0
Physical Hazard: 0
PPE: X





Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.

#### **Abbreviations**

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: July 18, 2019

## Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.



Version 1.1 Revision Date: 02/01/2023

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : LIQUICHLOR® 12.5% SOLUTION

Recommended use of the chemical and restrictions on use

Recommended use : refer to EPA registered label for specific uses

Manufacturer or supplier's details

Company: Univar Solutions USA, Inc.Address3075 Highland Pkwy Suite 200

Downers Grove, IL 60515 United States of America (USA)

**Emergency telephone number:** 

Transport North America: CHEMTREC (1-800-424-9300) CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department

E-mail: SDSNA@univarsolutions.com SDS Requests: 1-855-429-2661 Website: www.univarsolutions.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Corrosive to metals : Category 1

Skin corrosion : Category 1

Serious eye damage : Category 1

**GHS** label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:** 

P234 Keep only in original container. P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection. **Response:** 

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/ doctor.

SDS Number: 100000072639 1 / 11 LIQUICHLOR® 12.5% SOLUTION



Version 1.1 Revision Date: 02/01/2023

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/ doctor.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner

liner. **Disposal:** 

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### **Hazardous components**

CAS-No.	Chemical name	Weight percent
7681-52-9	Sodium hypochlorite	12.5
1310-73-2	Sodium hydroxide	0 - 5

Actual concentration is withheld as a trade secret

Any Concentration shown as a range is due to batch variation.

Synonyms : Bleach,

## **SECTION 4. FIRST AID MEASURES**

General advice : Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Take victim immediately to hospital.

Move to fresh air.

If breathing has stopped, apply artificial respiration.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Remove contaminated clothing. If irritation develops, get med-

ical attention.

Burns must be treated by a physician.

In case of eye contact : In case of eye contact

Immediately flush eye(s) with plenty of water.

Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

SDS Number: 100000072639 2 / 11 LIQUICHLOR® 12.5% SOLUTION



Version 1.1 Revision Date: 02/01/2023

If easy to do, remove contact lens, if worn.

If eye irritation persists, consult a specialist.

Take victim immediately to hospital.

If swallowed Take victim immediately to hospital.

> Do NOT induce vomiting. Rinse mouth with water.

If victim is fully conscious, give a cupful of water.

If a person vomits when lying on his back, place him in the

recovery position.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO2)

> Foam Drv powder

Unsuitable extinguishing

media

Specific hazards during fire-

fighting

: High volume water jet

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- : Use personal protective equipment. tive equipment and emer-

gency procedures

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Neutralise with acid.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.

SDS Number: 100000072639 **LIQUICHLOR® 12.5% SOLUTION** 3/11



Version 1.1 Revision Date: 02/01/2023

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7681-52-9	Sodium hypochlorite	STEL	2 mg/m3	US WEEL
1310-73-2	Sodium hydroxide	С	2 mg/m3	ACGIH
		С	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		С	2 mg/m3	OSHA P0
		С	2 mg/m3	CAL PEL

## Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SDS Number: 100000072639 4 / 11 LIQUICHLOR® 12.5% SOLUTION



Version 1.1 Revision Date: 02/01/2023

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid Colour : clear

yellow

Odour : Chlorine

Odour Threshold : No data available

pH : 11.5 - 13

Freezing Point (Melting : -20 - -15 °C (-4 - 5 °F)

point/freezing point)

Boiling Point () : 230 °F (230 °F)

Decomposition: Decomposition temperature

Flash point : Not Flammable

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 12 - 17.5 mmHg @ 20 °C (68 °F)

Relative vapour density : No data available Relative density : 1.17 @ 20 °C (68 °F)

Reference substance: (water = 1)

Density : 1.17 g/cm3

Solubility(ies)
Water solubility

Water solubility : completely soluble Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available Thermal decomposition : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable

Possibility of hazardous reac- : No hazards to be specially mentioned.

tions

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Acids

Combustible material Halogenated compounds

Metals metal salts Organic materials

SDS Number: 100000072639 5 / 11 LIQUICHLOR® 12.5% SOLUTION



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organic nitro compounds

Zinc

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

**Components:** 

7681-52-9:

Acute oral toxicity

: LD50 (Rat, male): > 2,000 mg/kg

1310-73-2:

Acute oral toxicity

: LD50 (Rabbit): 325 mg/kg

#### Skin corrosion/irritation

## **Components:**

7681-52-9:

Species: Rabbit

Result: Causes burns.

1310-73-2:

Species: Rabbit

Result: Causes severe burns.

## Serious eye damage/eye irritation

#### **Components:**

7681-52-9:

Species: Rabbit

Result: Risk of serious damage to eyes.

**1310-73-2:** Species: Rabbit

Result: Risk of serious damage to eyes.

Carcinogenicity

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

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## STOT - single exposure

## **Components:**

#### 7681-52-9:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### **Further information**

**Product:** 

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## **Components:**

7681-52-9:

Toxicity to fish : LC50 (Salmo gairdneri (Rainbow Fish)): 0.06 mg/l

Exposure time: 96 h

Test Type: flow-through test

LC50 (Pimephales promelas (fathead minnow)): 5.9 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.141 mg/l

Exposure time: 48 h

Test Type: flow-through test

EC50 (Ceriodaphnia dubia): 0.035 mg/l

Exposure time: 48 h

Test Type: flow-through test

Toxicity to algae : IC50: 0.023 mg/l

Exposure time: 7 d

Test Type: flow-through test

M-Factor (Acute aquatic tox-

icity)

: 10

Acute aquatic toxicity- As-

coccmont

: Very toxic to aquatic life.

sessment

Chronic aquatic toxicity- As-

: Toxic to aquatic life with long lasting effects.

sessment

## Persistence and degradability

No data available

### **Bioaccumulative potential**

No data available

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#### Mobility in soil

No data available

#### Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Uni-

var Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

#### **DOT (Department of Transportation):**

UN1791, Hypochlorite solutions, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

## IATA (International Air Transport Association):

UN1791, Hypochlorite solution, 8, III

#### **IMDG** (International Maritime Dangerous Goods):

UN1791, HYPOCHLORITE SOLUTION, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

#### **SECTION 15. REGULATORY INFORMATION**

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)

SDS Number: 100000072639 8 / 11 LIQUICHLOR® 12.5% SOLUTION



## **Safety Data Sheet**

## **LIQUICHLOR® 12.5% SOLUTION**

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Sodium hypochlorite	7681-52-9	100	800
Sodium hydroxide	1310-73-2	1000	20000

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Corrosive to metals

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

7681-52-9 Sodium hypochlorite Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

7681-52-9 Sodium hypochlorite 1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### Massachusetts Right To Know

7681-52-9 Sodium hypochlorite 1310-73-2 Sodium hydroxide

Pennsylvania Right To Know

7732-18-5 Water

7681-52-9 Sodium hypochlorite 1310-73-2 Sodium hydroxide

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other re-

productive harm.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

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NZIoC : Not in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

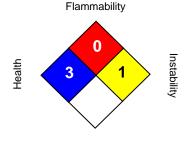
KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

#### **SECTION16. OTHER INFORMATION**

#### NFPA:



Special hazard

#### HMIS III:

HEALTH	3/
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

**Revision Date** : 02/01/2023

#### Material number:

16179440, 16173035, 16172686, 16173104, 16185315, 16172598, 16146040, 16151002, 16149524, 16158615, 16145640, 16148059, 16144666, 16147989, 16163791, 16180800, 16164756, 16164592, 16164731, 16164730, 16203820, 16203821, 16203184, 16194505, 16158853, 16151253, 16149870, 16148071, 16148060, 16147684, 16145965, 16145895, 16145890, 16145584, 16145144, 16145142, 16145140, 16145138, 16145137, 16145133, 16145130, 16145079, 16159810, 16150495, 16149123, 16147041, 16145471, 16144665, 16145772, 16148183, 16145046, 16143737, 16135287, 16163624, 16148721, 16155765, 16158840, 16145484, 16166710, 16148748, 16148260, 16166763, 16166591, 16145834, 16166014, 16159793, 16162934, 16165524, 16165444, 16165066, 16137823, 16137455, 16137753, 16147687, 16144215, 16150496, 16149504, 16145673, 16149243, 16136536, 16160181, 16160290, 16144046, 16145139, 16150462, 16149046, 16149516, 16148083, 16150461, 16135216, 16156005, 16151878, 16151501, 16150223, 16149931, 16148522.



Version 1.1 Revision Date: 02/01/2023

16148259, 16147092, 16145877, 16145876

Key or le	gend to abbreviations and acronym	s used in	the safety data sheet
ACGIH	American Conference of Govern- ment Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

# ChemTreat\*

## SAFETY DATA SHEET

## 1. Identification

Product identifier P893L

Other means of identification

Product code P893L

Recommended use Water Clarification Agent

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChemTreatAddress5640 Cox Road

Glen Allen, VA 23060 United States

Telephone 800-648-4579
E-mail Not available.
Emergency phone number 800-424-9300

## 2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic

life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Keep only in original container. Wash thoroughly after handling. Avoid release to the environment.

Wear eye protection/face protection. Wear protective gloves.

**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Category 2

Absorb spillage to prevent material damage.

**Storage** Store in corrosive resistant container with a resistant inner liner.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 25% of the mixture consists of component(s) of unknown acute oral toxicity. 25% of the mixture

consists of component(s) of unknown acute dermal toxicity. 25% of the mixture consists of component(s) of unknown acute inhalation toxicity. 25% of the mixture consists of component(s)

of unknown acute hazards to the aquatic environment. 25% of the mixture consists of

component(s) of unknown long-term hazards to the aquatic environment.

Material name: P893L SDS US

P893L Version #: 01 Issue date: 03-10-2022

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Aluminum chloride hydroxide		12042-91-0	20 - < 30
Other components below repo	ortable levels		70 - < 80

#### 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Material name: P893L SDS US Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Aluminum chloride hydroxide (CAS 12042-91-0)	TWA	1 mg/m3	Respirable fraction.

## **US. NIOSH: Pocket Guide to Chemical Hazards**

US. NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	
Aluminum chloride hydroxide (CAS	TWA	2 mg/m3	
12042-91-0)			

Biological limit values

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level. Provide eyewash station and safety

shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

No biological exposure limits noted for the ingredient(s).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance	Clear
Physical state	Liquid.
Form	Liquid. Liquid
Color	Light Straw
Odor	Mild

Odor threshold Not available. pH 4 @ 20C

Melting point/freezing point 33.80 °F (1.00 °C)

Initial boiling point and boiling

range

211.95 °F (99.97 °C) estimated

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Material name: P893L P893L Version #: 01 Issue date: 03-10-2022 Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity400 - 3000 cps

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

Pounds per gallon 9.81

**Specific gravity** 1.164 - 1.195 @ 20C

## 10. Stability and reactivity

**Reactivity** May be corrosive to metals.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Metals.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

## Information on toxicological effects

Acute toxicity Not known.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

**US.** National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Material name: P893L SDS US

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

**Test Results Product Species** P893L Aquatic Crustacea LC50 Ceriodaphnia dubia 1.148 mg/l, 48 hours Daphnia magna 2.56 mg/l, 48 hours 1.34 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 4.218 mg/l, 96 hours

4.1 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** Mobility in soil

No data available. No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the **Disposal instructions** 

> material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

In containers of 119 gallons capacity or less this product is not regulated by the DOT.

## IATA

**UN number** UN3264

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. UN proper shipping name

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

**UN number** UN3264

Material name: P893L SDS US **UN** proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminum Chlorohydrate), MARINE

**POLLUTANT** 

Not established.

Transport hazard class(es)

Class 8 Subsidiary risk Packing group Ш

**Environmental hazards** 

Marine pollutant Yes F-A, S-F

**EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG



#### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

**Classified hazard** Corrosive to metal categories

Skin corrosion or irritation

Serious eye damage or eye irritation

Material name: P893L SDS US

## SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

Inventory name

(SDWA)

### **US state regulations**

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
•	nents of this product comply with the inventory requirements administered by the governing country(s)	

**Compliance Information: NSF Whitebook** 

## **Compliance Information: NSF Standard 60**

This product is certified to NSF/ANSI Standard 60 for the following approved function: Coagulate/Flocculate. Maximum use rate for potable water - 20 mg/L. This product ships as NSF from:

09132 - Ashland VA 09131 - Nederland TX # 7 USA #25 USA



#### 16. Other information, including date of preparation or last revision

Issue date 03-10-2022

Version # 01 **HMIS®** ratings Health: 1

Flammability: 0 Physical hazard: 1 Personal protection: X

Material name: P893L SDS US

On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

ChemTreat cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.

Other information

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: P893L SDS US

# ChemTreat\*

## SAFETY DATA SHEET

#### 1. Identification

Product identifier CL4132

Other means of identification

Product code CL4132

Recommended use Cooling Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChemTreatAddress5640 Cox Road

Glen Allen, VA 23060

United States

Telephone 800-648-4579
E-mail Not available.
Emergency phone number 800-424-9300

## 2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 1BSerious eye damage/eye irritationCategory 1

Reproductive toxicity

Category 2

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye

damage. Suspected of damaging fertility or the unborn child. Harmful to aquatic life. Harmful to

aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep only in original container. Do not breathe mist/vapors. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

**Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material

damage.

None known.

Storage Store locked up. Store in corrosive resistant container with a resistant inner liner.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Material name: CL4132 SDS US

CL4132 Version #: 01 Issue date: 05-26-2021

#### Supplemental information

17.5% of the mixture consists of component(s) of unknown acute oral toxicity. 17.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 20% of the mixture consists of component(s) of unknown acute inhalation toxicity. 15% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 2.5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Chlorotolyltriazole sodium salt		202420-04-0	10 - < 20
Sodium hydroxide		1310-73-2	1 - < 3
Sodium tolyltriazole		64665-57-2	1 - < 3
Other components below reportab	ole levels		80 - < 90

#### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area, Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Material name: CL4132 SDS US

### Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

#### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

#### Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Туре	Value	
PEL	2 mg/m3	
es		
Туре	Value	
Ceiling	2 mg/m3	
mical Hazards		
Type	Value	
	PEL es Type Ceiling mical Hazards	PEL 2 mg/m3  es  Type Value  Ceiling 2 mg/m3  mical Hazards

#### **Biological limit values**

1310-73-2)

Sodium hydroxide (CAS

No biological exposure limits noted for the ingredient(s).

#### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

2 mg/m3

#### Individual protection measures, such as personal protective equipment

Chemical respirator with organic vapor cartridge and full facepiece. Eye/face protection

Ceiling

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

#### General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Material name: CL4132 SDS US 3/8

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Liquid. Liquid **Form** Color Dark Straw

Odor Mild

**Odor threshold** Not available. 13 @ 100% pН

Melting point/freezing point 12.20 °F (-11.00 °C) Initial boiling point and boiling 210.2 °F (99 °C) estimated

range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

0.00001 hPa estimated Vapor pressure

Not available. Vapor density Not available. Relative density

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Not explosive. **Explosive properties** Not oxidizing. Oxidizing properties Percent volatile 80 % estimated

Pounds per gallon 9.68

Specific gravity 1.16 @ 20C

## 10. Stability and reactivity

Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive Reactivity

to metals.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Contact with incompatible materials. Do not mix with other chemicals. Conditions to avoid Incompatible materials Strong acids. Strong oxidizing agents. Oxidizing agents. Metals.

Hazardous decomposition No hazardous decomposition products are known.

products

## 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Material name: CL4132 SDS US Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity Not known.

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

Causes serious eve damage.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

Ecotoxicity	Harmful to	aquatic life with long lasting effects.	
Product		Species	Test Results
CL4132			
Aquatic			
Crustacea	IC25	Ceriodaphnia dubia	22.4 mg/l, 7 days
	LC50	Ceriodaphnia dubia	108 mg/l, 48 hours
	LOEC	Ceriodaphnia dubia	25 mg/l, 7 days
	NOEC	Ceriodaphnia dubia	12.5 mg/l, 7 days
Fish	IC25	Fathead minnow (Pimephales promelas)	31.4 mg/l, 7 days
	LC50	Fathead minnow (Pimephales promelas)	44.1 mg/l, 96 hours
	LOEC	Fathead minnow (Pimephales promelas)	25 mg/l, 7 days
	NOEC	Fathead minnow (Pimephales promelas)	12.5 mg/l, 7 days
ersistence and degradability	No data is	available on the degradability of any ingredie	nts in the mixture.
ioaccumulative potential	No data av	ailable.	
obility in soil	No data av	ailable.	
Other adverse effects		dverse environmental effects (e.g. ozone depl ndocrine disruption, global warming potential)	

Material name: CL4132 SDS US

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

> material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

8

## 14. Transport information

DOT

UN1760 **UN** number

**UN** proper shipping name

CORROSIVE LIQUID N.O.S. (Chlorotolyltriazole sodium salt)

Transport hazard class(es) Class

Subsidiary risk Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 274

IATA

**UN** number UN1760

UN proper shipping name

CORROSIVE LIQUID N.O.S. (Chlorotolyltriazole sodium salt)

Transport hazard class(es)

8 Class Subsidiary risk П Packing group **Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN1760

**UN** proper shipping name

Transport hazard class(es)

CORROSIVE LIQUID N.O.S. (Chlorotolyltriazole sodium salt)

Class 8 Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant Nο

Not available. **EmS** 

Transport in bulk according to

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Annex II of MARPOL 73/78 and

the IBC Code



Material name: CL4132 SDS US

CL4132 Version #: 01 Issue date: 05-26-2021



## 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Sodium hydroxide (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Corrosive to metal

categories Skin corrosion or irritation

Yes

Serious eye damage or eye irritation

Reproductive toxicity

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Sodium hydroxide (CAS 1310-73-2)

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Material name: CL4132 SDS US

Country(s) or region Inventory name On inventory (yes/no)\* Europe

European Inventory of Existing Commercial Chemical

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

## 16. Other information, including date of preparation or last revision

05-26-2021 Issue date

Version #

**Philippines** 

Health: 3 **HMIS®** ratings

Flammability: 0 Physical hazard: 0 Personal protection: X

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> products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the

> condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which

information refers.

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: CL4132 SDS US

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# ChemTreat\*

## SAFETY DATA SHEET



## 1. Identification

Product identifier CL5644

Other means of identification

Product code CL5644

Recommended use Cooling Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road

Clap Allan, VA 2206

Glen Allen, VA 23060 United States

Telephone 800-648-4579
Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B
Sensitization, skin Category 1
Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause

damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to

aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Contaminated work clothing must

not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.

**Response**If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention

if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Material name: CL5644 SDS US

CL5644 Version #: 01 Issue date: 03-03-2023

#### Supplemental information

19.57% of the mixture consists of component(s) of unknown acute oral toxicity. 37.67% of the mixture consists of component(s) of unknown acute dermal toxicity. 30.57% of the mixture consists of component(s) of unknown acute inhalation toxicity. 37.67% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 32.67% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

	tu	

Chemical name	Common name and synonyms	CAS number	%
2-Butenedioic acid (Z)-, homopolymer		26099-09-2	10 - < 20
citric acid		77-92-9	5 - < 10
Reactive Polyhydroxy Complex, RPC		proprietary	5 - < 10
Hydrochloric acid		7647-01-0	< 1
Other components below reportable	e levels		60 - < 70

## 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Material name: CL5644 SDS US

## Methods and materials for containment and cleaning up

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Value

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Reactive Polyhydroxy Complex, RPC	PEL	2 mg/m3	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	Form
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Reactive Polyhydroxy Complex, RPC	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Reactive Polyhydroxy Complex, RPC	TWA	2 mg/m3	

## Biological limit values

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety

#### Individual protection measures, such as personal protective equipment

iaiviadai protection measures,	such as personal protective equipment
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

Material name: CL5644 SDS US

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

Appearance

Clear Liquid.

Physical state

Liquid. Liquid

**Form** Color

Amber

Mild

Odor **Odor threshold** 

Not available.

3.1 100

Melting point/freezing point

26.60 °F (-3.00 °C)

Initial boiling point and boiling

Not available.

range

Flash point

Not available.

**Evaporation rate** Flammability (solid, gas)

Not available. Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 0.00008 hPa estimated

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** 0 - 200 cps

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

10.78 Pounds per gallon

Specific gravity 1.28 - 1.3 @ 20C

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong acids. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

Material name: CL5644 SDS US

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

citric acid (CAS 77-92-9)

<u>Acute</u>

Oral

LD50 Rat 6730 mg/kg

Hydrochloric acid (CAS 7647-01-0)

Acute Oral

LD50 Rabbit 900 mg/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloric acid (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

## 12. Ecological information

cotoxicity	Harmful to aquatic life with long lasting effects.		
Product		Species	Test Results
CL5644			
Aquatic			
Crustacea	LC50	Ceriodaphnia dubia	1768 mg/l, 48 hours
		Opossum shrimp order (Mysida)	> 10000 mg/l, 48 hours

Material name: CL5644 SDS US

 Product
 Species
 Test Results

 Fish
 LC50
 Fathead minnow (Pimephales promelas)
 3815 mg/l, 96 hours

 Inland silverside (Menidia beryllina)
 5675 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

citric acid -1.64

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Hydrochloric acid (CAS 7647-01-0) Listed.

SARA 304 Emergency release notification

Hydrogen chloride (CAS 7647-01-0) 5000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Hydrochloric acid	7647-01-0	5000	500		

Material name: CL5644 SDS US

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

Respiratory or skin sensitization

SARA 313 (TRI reporting)

**Chemical name** CAS number % by wt. Hydrochloric acid 7647-01-0

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Hydrochloric acid (CAS 7647-01-0)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Hydrochloric acid (CAS 7647-01-0)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Specific target organ toxicity (single or repeated exposure)

Hydrochloric acid (CAS 7647-01-0)

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Hydrochloric acid (CAS 7647-01-0)

20 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Hydrochloric acid (CAS 7647-01-0)

6545

#### **US** state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Hydrochloric acid (CAS 7647-01-0)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### **Compliance Information: Halal**

### **Compliance Information: Kosher**

This product is certified by the Orthodox Unionas Kosher pareve

Material name: CL5644 SDS US

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Ashland VA Eldridge IA Nederland TX



# 16. Other information, including date of preparation or last revision

**Issue date** 03-03-2023

Version # 01

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: X

**Disclaimer** ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or

the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which

information refers.

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: CL5644 sps us

CL5644 Version #: 01 Issue date: 03-03-2023



# SAFETY DATA SHEET



### 1. Identification

Product identifier BL124
Other means of identification None.

Recommended use Boiler Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road

Glen Allen, VA 23060 United States

Telephone 800-648-4579
Website chemtreat.com

**E-mail** productcompliance@chemtreat.com

Emergency phone number 800-424-9300

### 2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Sensitization, respiratoryCategory 1Sensitization, skinCategory 1Environmental hazardsHazardous to the aquatic environment, acuteCategory 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement May be corrosive to metals. Causes skin irritation. May cause an allergic skin reaction. Causes

serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Category 3

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Keep only in original container. Avoid breathing mist/vapors. Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves. In case of inadequate

ventilation wear respiratory protection.

Response If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air

and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse. Absorb spillage to prevent material damage.

**Storage** Store in corrosive resistant container with a resistant inner liner.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: BL124 SDS US

25 Version #: 03 Revision date: 03-29-2023 Issue date: 07-13-2022

30% of the mixture consists of component(s) of unknown acute dermal toxicity. 30% of the mixture consists of component(s) of unknown acute inhalation toxicity. 30% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 30% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sodium bisulfite		7631-90-5	25 - < 40
Other components below	reportable levels		70 - < 80

#### 4. First-aid measures

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a

poison center or doctor/physician.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

O----!6'- b----

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Material name: BL124 SDS US

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

#### Precautions for safe handling

Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	
Sodium bisulfite (CAS 7631-90-5)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Sodium bisulfite (CAS 7631-90-5)	TWA	5 mg/m3	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower.

### Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** Clear **Physical state** Liquid. Liquid. Liquid **Form** Color Yellow Odor Strong **Odor threshold** Not available. 3.9 @ 100% 30.20 °F (-1.00 °C) Melting point/freezing point Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** 

Material name: BL124 SDS US Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 0.00001 hPa estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 0 - 200 cps

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing. 21 % estimated Percent volatile

Pounds per gallon 10.3

Specific gravity 1.24 @ 20C VOC 0 %w/w

# 10. Stability and reactivity

Reactivity May be corrosive to metals.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Metals. Strong acids. **Hazardous decomposition** No hazardous decomposition products are known.

products

# 11. Toxicological information

#### Information on likely routes of exposure

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation Inhalation

may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

# Information on toxicological effects

Acute toxicity Not known.

Material name: BL124 SDS US Components Species Test Results

Sodium bisulfite (CAS 7631-90-5)

Acute Oral

LD50 Rat 2 g/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium bisulfite (CAS 7631-90-5)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

Ecotoxicity	Harmful to aq	uatic life with long lasting effects.	
Product		Species	Test Results
BL124			
Aquatic			
Crustacea	LC50	Ceriodaphnia dubia	459 mg/l, 48 hours
			390.4 mg/l, 48 hours
		Opossum shrimp order (Mysida)	70.7 mg/l, 48 hours
	LOEC	Ceriodaphnia dubia	600 mg/l, 7 days
	NOEC	Ceriodaphnia dubia	300 mg/l, 7 days
Fish	IC25	Fathead minnow (Pimephales promelas)	750 mg/l, 7 days
	LC50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hours
			849 mg/l, 96 hours
		Sheepshead minnow (Cyprinodon variegatus)	100 mg/l, 96 hours
	LOEC	Fathead minnow (Pimephales promelas)	1200 mg/l, 7 days
	NOEC	Fathead minnow (Pimephales promelas)	600 mg/l, 7 days
ersistence and degradability	No data is ava	ailable on the degradability of any ingredier	nts in the mixture.
ioaccumulative potential	No data available.		
lobility in soil	No data availa	able.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

Material name: BL124 SDS US

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

UN2693 **UN** number

**UN** proper shipping name

BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

Transport hazard class(es)

8 Class Subsidiary risk Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

IB3, T7, TP1, TP28 Packaging exceptions 154

203 Packaging non bulk Packaging bulk 241

**IATA** 

**UN** number UN2693

**UN proper shipping name** 

BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN2693

**UN proper shipping name** 

BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

Transport hazard class(es) Class

8 Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant No.

Not available. **EmS** 

Transport in bulk according to

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Annex II of MARPOL 73/78 and

the IBC Code

Material name: BL124 SDS US



### IATA; IMDG



# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Sodium bisulfite (CAS 7631-90-5)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

**Classified hazard** 

Corrosive to metal

categories

Skin corrosion or irritation

Serious eye damage or eye irritation

Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

Material name: BL124 SDS US

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical	Yes

Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

#### **Compliance Information: Halal**

#### **Compliance Information: Kosher**

This product is certified by the Orthodox Unionas Kosher pareve

Ashland VA Nederland TX Fontana CA



#### **Compliance Information: NSF Whitebook**

This product conforms to the requirements of the NSF Nonfood Compounds Registration Program, Registration # 148827; Category G6, G7.



### **Compliance Information: Food Regulations**

FDA: All ingredients in this product are authorized in 21 CFR 173.310 for use as "Boiler Water Additives" where the steam may contact food.

### 16. Other information, including date of preparation or last revision

 Issue date
 07-13-2022

 Revision date
 03-29-2023

Version # 03
HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0 Personal protection: X

Material name: BL124 SDS US

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.

**Revision information** 

Product and Company Identification: Product and Company Identification

Stability and reactivity: Incompatible materials

Other information

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: BL124 SDS US

25 Version #: 03 Revision date: 03-29-2023 Issue date: 07-13-2022

# ChemTreat\*

# SAFETY DATA SHEET

# 1. Identification

Product identifier CL4512

Other means of identification None.

Recommended use R&D Blend

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.
Address 5640 Cox Road
Glen Allen, VA 23060

United States

Telephone 800-648-4579 Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 11.25% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 11.25% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

The manufacturer lists no ingredients as hazardous to health according to OSHA 29 CFR 1910.1200.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

IngestionRinse mouth. Get medical attention if symptoms occur.Most importantDirect contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Material name: CL4512 SDS US

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Indication of immediate medical attention and special treatment needed

Treat symptomatically.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions
Specific methods

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Observe good industrial hygiene practices.

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

Occupational exposure limits Biological limit values

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid.

Material name: CL4512 sps us

Form Liquid.

ColorNot available.OdorNot available.Odor thresholdNot available.

**pH** 9.6

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point 208.4 °F (98.0 °C) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Material name: CL4512 SDS US

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species Test Results

CL4512

**Aquatic** 

Acute

Crustacea LC50 Water flea (Ceriodaphnia dubia) 1886 mg/l, 48 h Fish LC50 Fathead minnow (Pimephales promelas) 848 mg/l, 96 h

Persistence and degradability

**Bioaccumulative potential** 

No data is available on the degradability of any ingredients in the mixture.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

Material name: CL4512 SDS US

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

**US federal regulations** 

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

# **US state regulations**

### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Material name: CL4512 Sps us

Country(s) or region Inventory name On inventory (yes/no)\*

Taiwan Chemical Substance Inventory (TCSI)

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

# 16. Other information, including date of preparation or last revision

Issue date 03-28-2023

Version # 01

**HMIS**® ratings Health: 0

Flammability: 0 Physical hazard: 0 Personal protection: B

**Disclaimer** ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or

the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for

condition that the persons receiving same will make their own determination as to its suitability fo their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which

any other nature are made nereunder with respect to information or the product to which

information refers.

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: CL4512 SDS US

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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).





# SAFETY DATA SHEET

# Section 1. Chemical Product and Company Identification

Product Name: Quadrasperse® CL3857
Product Use: Quadrasperse® CL3857
Cooling Water Treatment

Supplier's Name: ChemTreat, Inc.

**Emergency Telephone Number:** (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

Telephone Number for Information:(800)648-4579Date of SDS:March 26, 2019Revision Date:March 26, 2019Revision Number:19032601AN

# Section 2. Hazard(s) Identification

Signal Word: DANGER

GHS Classification(s): Eye damage/irritation – Category 1

Skin corrosion/irritation - Category 1b

Hazard Statement(s): H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**Precautionary Statement(s):** 

**Prevention:** P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapors/spray. P271 Use only outdoors or in a well–ventilated area. P270 Do not eat, drink, or smoke when using this product.







**Response:** P305 + P351 + P338 IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists, get medical

advice/attention.

P303 + P361 + P353 IF ON SKIN (or hair):

Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower

P312 Call a POISON CENTER or doctor/physician if

you feel unwell.

P362 + P364 Take off contaminated clothing and wash

it before reuse.

P304 + P340 IF INHALED: Remove person to fresh

air and keep comfortable for breathing

P312 Call a POISON CENTER or doctor/physician if

you feel unwell.

P301 + 330 + 331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P330 Rinse mouth.

Storage: None.

**Disposal:** P501 Dispose of contents and container in accordance

with applicable local, regional, national, and/or

international regulations.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Hazards Not Otherwise** 

Classified:

None.

# Section 3. Composition/Hazardous Ingredients

0	040 B	186 07
Component	CAS Registry #	Wt.%
2-Phosphono-1,2,4-butane tricarboxylic acid	37971–36–1	7 – 13

#### Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

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# Section 4. First Aid Measures

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a poison center or doctor/physician if you feel

unwell.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately

call a poison center or doctor/physician.

**Skin:** Immediately remove/take off all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before re-use.

Immediately call a poison center or doctor/physician.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician.

**Most Important Symptoms:** N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

**Necessary:** 

N/A

# Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

**Suitable Extinguishing Media:** Use extinguishing media suitable to surrounding fire.

**Specific Hazards Arising from** 

the Chemical:

None known.

**Protective Equipment:** If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.





# Section 6. Accidental Release Measures

**Personal Precautions:** Use appropriate Personal Protective Equipment (PPE).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

**Methods for Cleaning up:** Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: None.

# Section 7. Handling and Storage

**Handling:** Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only.

Do not store or handle in aluminum, zinc, copper, or their alloys.

Store above Freeze Point.

# Section 8. Exposure Controls/Personal Protection

# **Exposure Limits**

Component	Source	Exposure Limits
2-Phosphono-1,2,4-butane tricarboxylic acid	N/E	N/E

**Engineering Controls:** Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.





#### **Personal Protection**

**Eyes:** Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

**Skin:** Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

**Respiratory:** If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.

# Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, Dark Straw, Clear

Specific Gravity: 1.180 @ 20°C

pH: 1.9 @ 20°C, 100.0%

Freezing Point:

Flash Point:

Odor:

Mild

Melting Point:

Initial Boiling Point and Boiling Range:

Solubility in Water:

32°F

N/D

Mild

N/A

212°F

Complete

Evaporation Rate: Similar to water Vapor Density: Similar to water

Molecular Weight:N/DViscosity:N/AFlammability (solid, gas):N/DFlammable Limits:N/AAutoignition Temperature:N/A

**Density:** 9.84 LB/GA **Vapor Pressure:** Similar to water

% VOC: 0

Odor ThresholdN/Dn-octanol Partition CoefficientN/DDecomposition TemperatureN/D





# Section 10. Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various** 

**Substances:** 

Strong oxidizers, Strong bases.

**Hazardous Decomposition** 

**Products:** 

Oxides of phosphorus, Oxides of carbon.

**Possibility of Hazardous** 

Reactions:

None known.

Reactivity: N/D

Conditions To Avoid: N/D

# Section 11. Toxicological Information

# **Acute Toxicity**

Chemical Name	Exposure	Type of Effect	Concentration	Species
2-Phosphono-1,2,4-butane tricarboxylic acid	Oral	LD50	>6500 MG/KG	Rat

# **Carcinogenicity Category**

Component	Source	Code	Brief Description
2-Phosphono-1,2,4-butane tricarboxylic acid	N/E	N/E	N/E

Likely Routes of Exposure: N/D

**Symptoms** 

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D





Serious Eye Damage/Eye

Irritation:

N/D

Sensitization: N/D

**Germ Cell Mutagenicity:** N/D

Reproductive/Developmental

**Toxicity:** 

N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D

**Repeated Exposure:** N/D

**Aspiration Hazard:** N/D

**Comments:** None.

# Section 12. Ecological Information

# **Ecotoxicity**

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	1539 mg/l
	7d	IC25	340 mg/l
	7d	NOEC	625 mg/l
	7d	LOEC	1250 mg/l
Fathead Minnow	96h	LC50	2973 mg/l
	7d	IC25	1125 mg/l
	7d	NOEC	2500 mg/l
	7d	LOEC	5000 mg/l

Persistence and

**Biodegradability:** 

N/D

**Bioaccumulative Potential:** N/D

N/D **Mobility In Soil:** 

Other Adverse Effects: N/D

Comments: NOEC effect = Survival

Chronic data is based on an earlier formulation.

Aquatic toxicity data is based on testing of a similar product.





# Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

# Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	UN3265	CORROSIVE LIQUID, ACIDIC,	(2-PHOSPHONO-1,2,4-	8	PGIII
		ORGANIC, N.O.S.	BUTANETRICARBOXYLIC ACID)		
IMDG	UN3265	CORROSIVE LIQUID, ACIDIC,	(2-PHOSPHONO-1,2,4-	8	PGIII
		ORGANIC, N.O.S.	BUTANETRICARBOXYLIC ACID)		
TDG	UN3265	CORROSIVE LIQUID, ACIDIC,	(2-PHOSPHONO-1,2,4-	8	PGIII
		ORGANIC, N.O.S.	BUTANETRICARBOXYLIC ACID)		
ICAO	UN3265	CORROSIVE LIQUID, ACIDIC,	(2-PHOSPHONO-1,2,4-	8	PGIII
		ORGANIC, N.O.S.	BUTANETRICARBOXYLIC ACID)		

Note: N/A

# Section 15. Regulatory Information

**Inventory Status** 

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

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# **Federal Regulations**

### **SARA Title III Rules**

**Sections 311/312 Hazard Classes** 

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

No

### **Other Sections**

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
2-Phosphono-1,2,4-butane tricarboxylic acid	N/A	N/A	N/A

Comments: None.

# **State Regulations**

California Proposition 65: None known.

**Special Regulations** 

Component	States		
2-Phosphono-1,2,4-butane tricarboxylic acid	None.		

# **Compliance Information**

NSF: N/A

Food Regulations: N/A

**KOSHER:** This product is certified by the Orthodox Union as kosher

pareve.

Only when prepared by the following ChemTreat facilities:

Ashland, VA; Eldridge, IA; Nederland, TX.

**Halal:** This product has not been evaluated for Halal approval.

FIFRA: N/A

Other: None

Comments: None.





# Section 16. Other Information

# **HMIS Hazard Rating**

Health: 2
Flammability: 1
Physical Hazard: 0
PPE: X

**Notes:** The PPE rating depends on circumstances of use. See

Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for

their use.

# **Abbreviations**

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: March 26, 2019





# Disclaimer

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# SAFETY DATA SHEET

# Section 1. Chemical Product and Company Identification

**Product Name:** SULFURIC ACID 93%

**Product Use:**Supplier's Name:
Miscellaneous
ChemTreat, Inc.

**Emergency Telephone Number:** (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

**Telephone Number for Information:** (800)648–4579 **Date of SDS:** February 8, 2019

Revision Date: February 8, 2019
Revision Number: 19020801BN

# Section 2. Hazard(s) Identification

Signal Word: DANGER

**GHS Classification(s):** Skin corrosion/irritation – Category 1a

Carcinogenicity - Category 1

Acute Toxicity Inhalation - Category 2

**Hazard Statement(s):** H314 Causes severe skin burns and eye damage.

H350 May cause cancer. H330 Fatal if inhaled.

**Precautionary Statement(s):** 

**Prevention:** P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P284 Wear respiratory protection. P264 Wash thoroughly after handling. P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have

been read and understood.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P233 Keep container tightly closed.





Response: P301 + 330 + 331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair):

Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower

P304 + P340 IF INHALED: Remove person to fresh

air and keep comfortable for breathing P305 + P351 + P338 IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P308 + P311 IF exposed or concerned: Call a

POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

**Storage:** P403 Store in a well–ventilated place.

P405 Store locked up.

**Disposal:** P501 Dispose of contents and container in accordance

with applicable local, regional, national, and/or

international regulations.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Hazards Not Otherwise** 

Classified:

None.

# Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Sulfuric acid	7664-93-9	93

**Comments** If chemical identity and/or exact percentage of composition has been

withheld, this information is considered to be a trade secret.

# Section 4. First Aid Measures

**Inhalation:** Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a poison center or

doctor/physician.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately

call a poison center or doctor/physician.





Skin: Immediately remove/take off all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before re-use.

Immediately call a poison center or doctor/physician.

DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON Ingestion:

CENTER or doctor/physician.

**Most Important Symptoms:** N/D

Indication of Immediate **Medical Attention and** Special Treatment Needed, If

N/A

**Necessary:** 

# Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

**Suitable Extinguishing Media:** Use extinguishing media suitable to surrounding fire.

Avoid direct spray of water.

**Specific Hazards Arising from** 

the Chemical:

Direct contact with water can cause spattering and heat.

**Protective Equipment:** If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

# Section 6. Accidental Release Measures

**Personal Precautions:** Use appropriate Personal Protective Equipment (PPE).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

**Methods for Cleaning up:** Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: If RQ (Reportable Quantity) is exceeded, report to National

> Spill Response Office at 1–800–424–8802. Reportable Quantity of the product is 70 Gal.





# Section 7. Handling and Storage

**Handling:** Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only. Store in a well–ventilated place.

Store away from combustible materials.

# Section 8. Exposure Controls/Personal Protection

### **Exposure Limits**

Component	Source	Exposure Limits
Sulfuric acid	ACGIH TLV	0.2 ppm TWA
	OSHA PEL	1 mg/m³ TWA; Aerosol

**Engineering Controls:** Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.

**Personal Protection** 

**Eyes:** Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

**Skin:** Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

**Respiratory:** If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.





# Section 9. Physical and Chemical Properties

**Physical State and Appearance:** Liquid, N/D, N/D **Specific Gravity:** 1.835 @ 20°C

pH: N/D Freezing Point: N/D Flash Point: N/A Odor: Strong **Melting Point:** N/A

**Initial Boiling Point and Boiling Range:** 230°F Solubility in Water: Complete

**Evaporation Rate:** <1 **Vapor Density:** 3.4 **Molecular Weight:** N/D Viscosity: N/D Flammability (solid, gas): N/D Flammable Limits: N/A **Autoignition Temperature:** N/A

Density: 15.30 LB/GA **Vapor Pressure:** 1 mmHg @ 145C

% VOC: **Odor Threshold** N/D n-octanol Partition Coefficient N/D **Decomposition Temperature** N/D

# Section 10. Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various** Bases, Strong oxidizers, Halogens, Metals or metal oxides,

Substances: Reducing agents, Combustible materials.

**Hazardous Decomposition** Oxides of sulfur.

**Products:** 

**Possibility of Hazardous** 

None known. Reactions:

N/D Reactivity:

**Conditions To Avoid:** N/D





# Section 11. Toxicological Information

# **Acute Toxicity**

Chemical Name	Exposure	Type of Effect	Concentration	Species
Sulfuric acid	Oral	LD50	2140 MG/KG	Rat
	Inhalation	LD50	375 MG/L	Rat

# **Carcinogenicity Category**

Component	Source	Code	Brief Description
Sulfuric acid	NTP	NTP-K	Known to be a human carcinogen

Likely Routes of Exposure: N/D

**Symptoms** 

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

**Skin Corrosion/Irritation**: N/D

Serious Eye Damage/Eye N/D

Irritation:

Sensitization:

Germ Cell Mutagenicity: N/D

Reproductive/Developmental

**Toxicity:** 

N/D

N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D

Repeated Exposure: N/D

**Aspiration Hazard:** N/D

Comments: None.





# Section 12. Ecological Information

### **Ecotoxicity**

Species	Duration	Type of Effect	Test Results
N/D	N/D	N/D	N/D

Persistence and

N/D

**Biodegradability:** 

N/D

Mobility In Soil:

N/D

Other Adverse Effects:

**Bioaccumulative Potential:** 

N/D

**Comments:** 

Not tested.

# Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

# Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	UN1830	SULFURIC ACID, WITH MORE	N/A	8	PGII
		THAN 51% ACID			
Over 70 GA	RQ UN1830	SULFURIC ACID, WITH MORE	N/A	8	PGII
		THAN 51% ACID			

Note: N/A





# Section 15. Regulatory Information

**Inventory Status** 

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

**Federal Regulations** 

**SARA Title III Rules** 

**Sections 311/312 Hazard Classes** 

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

Yes

**Other Sections** 

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Sulfuric acid	N/A	1000	1000

Comments: None.

**State Regulations** 

California Proposition 65: This product contains chemica(s) known to the State of

California to cause cancer and/or to cause birth defects or

other reproductive harm: Sulfuric acid.

# **Special Regulations**

Component	States
Sulfuric acid	MA, MN, NJ, NY, PA, WA





# **Compliance Information**

NSF: N/A

Food Regulations: N/A

**KOSHER:** This product has not been evaluated for Kosher approval.

**Halal:** This product has not been evaluated for Halal approval.

FIFRA: N/A

Other: None

Comments: None.

# Section 16. Other Information

# **HMIS Hazard Rating**

Health: 3
Flammability: 0
Physical Hazard: 2
PPE: X

**Notes:** The PPE rating depends on circumstances of use. See

Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for

their use.

#### **Abbreviations**

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value





Abbreviation	Definition
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

**Revision Date:** February 8, 2019

# Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.

# ChemTreat\*

# **SAFETY DATA SHEET**

## 1. Identification

Product identifier P813E

Other means of identification

Product code P813E

Recommended use Water Clarification/Solids Conditioning

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChemTreatAddress5640 Cox Road

Glen Allen, VA 23060

**United States** 

Telephone 800-648-4579
E-mail Not available.
Emergency phone number 800-424-9300

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Wash thoroughly after handling. Wear eye protection/face protection.

**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 24.25% of the mixture consists of component(s) of unknown acute oral toxicity. 26.75% of the

mixture consists of component(s) of unknown acute dermal toxicity.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), Hydrotreated Light		64742-47-8	20 - < 30
Alcohols, C10-16, Ethoxylated		68002-97-1	1 - < 3
Alcohols, C12-14, Ethoxylated		68439-50-9	1 - < 3
Alcohols, C12-16-ethoxylated		68551-12-2	1 - < 3
Other components below reportable	levels		70 - < 80

Material name: P813E SDS US

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#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Get medical attention if

symptoms occur.

Most important symptoms/effects, acute and delayed

Ingestion

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

treatment needed
General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Alcohol resistant foam. Powder. Dry chemicals. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Will burn if involved in a fire. No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material name: P813E SDS US

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Components Type Value

Distillates (petroleum), Hydrotreated Light (CAS TWA

64742-47-8)

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

100 mg/m3

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Liquid. Emulsion
Color Not available.

Odor Mild

Odor threshold Not available.

pH Not available.

Melting point/freezing point 41.00 °F (<5 °C)

Initial boiling point and boiling

range

347 °F (175 °C) estimated

Flash point > 200.0 °F (> 93.3 °C) >

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 % estimated

(%)

Flammability limit - upper

5 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.64 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 410 °F (210 °C) estimated

**Decomposition temperature** Not available. **Viscosity** 400 - 3000 cps

Material name: P813E SDS US

Other information

**Density** 9.01 lbs/gal **Explosive properties** Not explosive.

Flammability class Combustible IIIB estimated

Oxidizing properties Not oxidizing.

Pounds per gallon 9.01

**Specific gravity** 1 - 1.1 @ 20C **VOC** 1 %w/w

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact**No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

#### Information on toxicological effects

Acute toxicity Not known.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

## US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not applicable.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard**Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

Material name: P813E SDS US

# 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

No data available. No data available.

Mobility in soil
Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

#### 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

icai

Classified hazard categories

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 313 (TRI reporting)

Not regulated.

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#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

#### International Inventories

0-----

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

**Issue date** 03-05-2021

Version # 01

United States & Puerto Rico

HMIS® ratings Health: 0

Flammability: 1 Physical hazard: 0 Personal protection: X

**Disclaimer**ChemTreat cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's

responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which

information refers.

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: P813E SDS US

P813E Version #: 01 Issue date: 03-05-2021

Yes

# Attachment J Plain Language Summary

Admin Report 1.0 - 9.f., Pg. 9



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

# Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Enterprise Products Operating LLC, (CN603211277) operates Houston Ship Channel Marine Loading Facility (RN102580834), a facility that transfers natural gas liquids to ships and barges. The facility is located at 15602 Jacintoport Boulevard, in Houston, Harris County, Texas 77015. This application is for an amendment for Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004976000 (EPA I.D. No. TX0133353) to authorize the addition of wet surface air cooler blowdown water on an intermittent and variable basis via Outfall 002.

Discharges from the facility are expected to contain chemical oxygen demand, oil and grease, and total residual chlorine via Outfall 001 and total organic carbon and oil and grease via Outfall 002. Wet surface air cooler blowdown water, filter backwash, hydrostatic test water, and stormwater will be treated by chemical additives via Outfall 001 and wet surface air cooler blowdown water, firewater monitor, test/flush water, hydrostatic test water, and stormwater, will be treated by chemical additives via 002.

# PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

# AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /AGUAS PLUVIALES

Enterprise Products Operating LLC, (CN603211277) opera Houston Ship Channel Marine Loading Facility (RN102580834), una instalación que transfiere líquidos de gas natural a buques y barcazas. La instalación está situada en 15602 Jacintoport Boulevard, en Houston, Harris County, Texas 77015. Esta solicitud es para una enmienda del Permiso del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) No. WQ0004976000 (EPA I.D. No. TX0133353) para autorizar la adición de agua de purga del enfriador de aire de superficie húmeda de forma intermitente y variable a través del Emisario 002.

Se prevé que los vertidos de la instalación contengan demanda química de oxígeno, aceites y grasas y cloro residual total a través del emisario 001 y carbono orgánico total y aceites y grasas a través del emisario 002. El agua de purga del enfriador de aire de superficie húmeda, el agua de lavado de filtros, el agua de prueba hidrostática y las aguas pluviales se tratarán mediante aditivos químicos a través del emisario 001 y el agua de purga del enfriador de aire de superficie húmeda, el monitor de agua contra incendios, el agua de prueba/lavado, el agua de prueba hidrostática y las aguas pluviales se tratarán mediante aditivos químicos a través del emisario 002.

# **INSTRUCTIONS**

- 1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
- 2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
- 3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
- 4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
- 5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
- 6. Choose the appropriate article (a or an) to complete the sentence.
- 7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
- 8. Choose "is" for an existing facility or "will be" for a new facility.
- 9. Enter the location of the facility in this section.
- 10. Enter the City nearest the facility in this section.
- 11. Enter the County nearest the facility in this section.
- 12. Enter the zip code for the facility address in this section.
- 13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
- 14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
- 15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
- 16. Choose the appropriate verb tense to complete the sentence.
- 17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

# **Example 1: Industrial Wastewater TPDES Application (ENGLISH)**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

ABC Corporation (CN600000000) operates the Starr Power Station (RN100000000000), a twounit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

# **Example 2: Domestic Wastewater TPDES Renewal application**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

# **Example 3: Domestic Wastewater TPDES New Application**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

#### Example 4: Domestic Wastewater TLAP Renewal application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations

of the permit application.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand ( $BOD_5$ ), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

DEER PARK REFINING LTD PTR	STOLT NIELSEN INC	PORT OF HOUSTON AUTHORITY
5600 HIGHWAY 225	15635 JACINTOPORT BLVD	15500 JACINTOPORT BLVD
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77015
KINDER MORGAN PETCOKE LP	HFOTCO LLC	SHELL OIL CO
4207 LA PORTE FWY	1201 S SHELDON RD	5600 LA PORTE FWY
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77536
DEEP PARK REFINING LP	OXY VINYLS LP	STOLT TERMINAL HOUSTON INC
5600 HIGHWAY 225	5600 HIGHWAY 225	15602 JACINTOPORT BLVD
DEER PARK, TX 77536	HOUSTON, TX 775	HOUSTON, TX 77015
PETROMAX REFINING CO LLC	BROADSTONE IKGTX LLC	CENTERPOINT ENERGY HOU ELE
1519 S SHELDON RD	PO BOX 310	0 JACINTOPORT BLVD
HOUSTON, TX 77015	CHANNELVIEW, TX 77015	HOUSTON, TX 77015
SOUTH SHELDON ROAD LP 1414 SOUTH SHELDON RD HOUSTON, TX 77015	STOLT-NIELSEN TRANSPORTATION GROUP INC 15635 JACINTOPORT BLVD HOUSTON, TX 77015	ETOCO LP 333 CLAY ST STE 3650 HOUSTON, TX 77015
STOLTHAVEN HOUSTON INC	CONTANDA JACINTOPORT STEEL 2 LLC	BESHERT PARTNERS LLC
15602 JACINTOPORT BLVD	1111 BAGBY ST FL 18	6000 JENSEN DR
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77015
STEIN INDUSTRIAL PARTNERS II LLC	JOHN W STONE OIL DISTRIBUTOR LLC	WEDTECH INC
6000 JENSEN DR	1601 BELLE CHASE HWY	2222 APPELT DR
HOUSTON, TX 77015	HOUSTON, TX 77015	HOUSTON, TX 77015
TDWP TERMINALS 2 LLC 811 MAIN ST STE 2800 HOUSTON, TX 77015		

# Comisión de Calidad Ambiental del Estado de Texas



# AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA PERMISO MODIFICACION

# PERMISO NO. WQ0004976000

**SOLICITUD.** Enterprise Products Operating LLC, P.O. Box 4324, Houston, Texas 77210, que es propietaria de la Houston Ship Channel Marine Loading Facility, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WQ0004976000 (EPA I.D. No. TX0133353)) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar añadiendo un tren de refrigeración/exportación adicional al sitio; se espera que la composición de las aquas residuales sea similar a las descargas de aquas residuales actuales a través del emisario 002 desde el Tren 3 existente. La planta está ubicada 15602 Jacintoport Boulevard, en la ciudad de Houston, en el Condado de Harris, Texas 77015. La ruta de descarga es del sitio de la planta a través del emisario 001 hasta una serie de zanjas artificiales, de allí al canal de navegación de mareas de Houston y a través del emisario 002 directamente al canal de navegación de mareas de Houston. La TCEO recibió esta solicitud el 23 de junio de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en North Channel Library, 15741 Wallisville Road, Houston en el condado de Harris, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.131666,29.74&level=18

El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

**AVISO DE IDIOMA ALTERNATIVO.** El aviso de idioma alternativo en español está disponible en <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>.

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

**INFORMACIÓN DISPONIBLE EN LÍNEA.** Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en <a href="www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <a href="http://www14.tceq.texas.gov/epic/eComment/">http://www14.tceq.texas.gov/epic/eComment/</a> o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Enterprise Products Operating LLC a la dirección indicada arriba o llamando a Mr. Michael Chastant al 713-381-6617.

Fecha de emisión: [Date notice issued]