

# Styrene Fact Sheet

## for field use with mobile monitoring instruments

This Field Guide provides a summary of the different mobile monitoring comparison values developed by the Toxicology, Risk Assessment, and Research Division for use in evaluating real-time mobile monitoring data in the field.

All derived mobile monitoring comparison values are intended to be used as guidance. Field investigators and mobile monitoring staff should use their own discretion when deciding to mitigate exposure, such as when experiencing health effects or intense odors, regardless of measured concentrations.

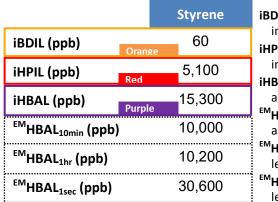
#### What is Styrene?

- Styrene is a colorless to slightly yellow oily liquid with a sweetish, sharp odor.
- Styrene is widely used make polystyrene, rubber resins, and insulators.
- Styrene is released into the air during manufacturing and production processes.

#### At What Levels Can Styrene Cause Harm?

Breathing high levels of styrene for a short period of time can result in eye, nasal, and throat irritation, and central nervous system effects (tiredness, color vision changes, balance problems, etc.). Long-term exposure to high concentrations of styrene in the air can result in neurological effects including changes in color vision, slowed reaction time, concentration problems, and balance problems.

### **Mobile Monitoring Comparison Values**



**iBDIL** - instantaneous baseline-derived investigation level

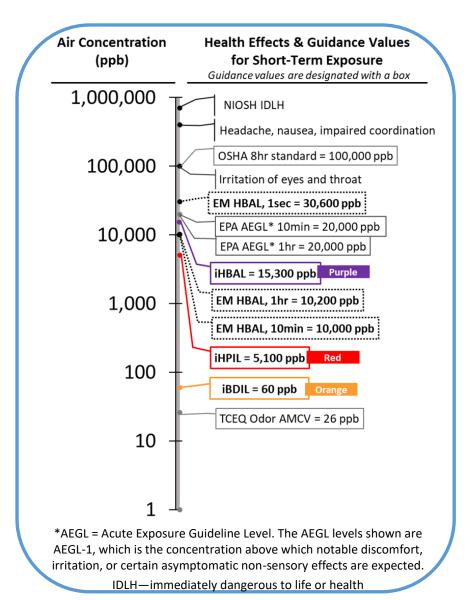
**iHPIL** - instantaneous health-protective investigation level

**iHBAL** - instantaneous health-based action level

MHBAL<sub>10min</sub> - 10-minute health-based action level for exposure mitigation

\*\*MHBAL<sub>1hr</sub> - 1-hour health-based action level for exposure mitigation

EMHBAL<sub>1sec</sub> - 1-second health-based action level for exposure mitigation



For more information on EPA's AEGL values, please see EPA's website.

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