Right to Know Hazardous Substance Fact Sheet

Emergency Responders Quick Reference

Common Name: **LEAD ARSENITE**

Synonyms: Lead Metaarsenite
CAS No: 10031-13-7
Molecular Formula: As_2O_4Pb
RTK Substance No: 1099
Description: White powder

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health **0 - Fire** **0 - Reactivity** **DOT#:** UN 1618 **ERG Guide #:** 151 **Hazard Class:** 6.1 (Poison)	Extinguish fire using an agent suitable for type of surrounding fire. **Lead Arsenite** itself does not burn. POISONOUS FUMES ARE PRODUCED IN FIRE, including *Lead Oxides* and *Arsenic Oxides*. Use water spray to keep fire-exposed containers cool.	**Lead Arsenite** will react violently with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC). **Lead Arsenite** is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE). *Inorganic Arsenic* can react with HYDROGEN to release highly toxic *Arsine gas*. Keep water solutions containing *Arsenic compounds* away from ACTIVE METALS (such as IRON, ALUMINUM, and ZINC) as highly toxic *Arsenic compounds* Such as *Arsine gas* may be released.

SPILL/LEAKS

Isolation Distance: 25 to 50 meters (80 to 160 feet)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up.

Toxic to aquatic organisms.

Hazardous to the environment and persists in the environment.

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Odor Threshold:	Odorless
Flash Point:	Non-combustible
LEL:	N/A
UEL:	N/A
Relative Density:	**5.85 (water = 1)**
Water Solubility:	**Insoluble**

EXPOSURE LIMITS

OSHA:	0.01 mg/m^3, 8-hr TWA (as *Arsenic*)
NIOSH:	0.002 mg/m^3, 15 minutes (as *Arsenic*)
ACGIH:	0.01 mg/m^3, 8-hr TWA (as *Arsenic*)
IDLH LEVEL:	5 mg/m^3 (as *Arsenic*)
PAC LEVELS:	PAC-1 = 4.2 mg/m^3; PAC-2 = 47 mg/m^3; PAC-3 = 280 mg/m^3

PROTECTIVE EQUIPMENT

Gloves:	Nitrile, Latex, Rubber
Coveralls:	DuPont Tyvek®, Tychem® Polycoat, QC, CPF-1, SL and CPF-2
Boots:	Butyl, Neoprene
Respirator:	>0.002 mg/m^3 - APR with High Efficiency filters ≥0.1 mg/m^3 - PAPR with High Efficiency filters or Pressure-demand supplied-air >5 mg/m^3 - Pressure-demand SCBA

HEALTH EFFECTS

Eyes:	Irritation and burns
Skin:	Irritation and burns
Acute:	Nose and throat irritation Headache, irritability, upset stomach, and weakness
Chronic:	*Inorganic Lead* compounds may cause lung, brain, stomach, and kidney cancer in humans. *Inorganic Arsenic compounds* cause skin and lung cancer in humans. Metallic taste, colic, and muscle cramps. Damage to the nervous system.

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Remove contaminated clothing and wash contaminated skin with water.

Transfer to a medical facility.