

Common Name: **POTASSIUM ARSENITE**

Synonyms: Potassium Metaarsenite; Potassium Arsonate

CAS No: 10124-50-2

 Molecular Formula:  $A_5H_3K_xO_4$ 

RTK Substance No: 1557

Description: White, odorless powder

**HAZARD DATA**

Hazard Rating	Firefighting	Reactivity
<b>4 - Health</b> <b>0 - Fire</b> <b>0 - Reactivity</b> DOT#: UN 1678 ERG Guide #: 154 Hazard Class: 6.1 (Poison)	Extinguish fire using an agent suitable for type of surrounding fire. <b>Potassium Arsenite</b> itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Arsine</i> , <i>Arsenic Oxides</i> and <i>Potassium Oxides</i> . Use water spray to keep fire-exposed containers cool.	<b>Potassium Arsenite</b> reacts with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC) to form toxic <i>Arsine gas</i> . <b>Potassium Arsenite</b> attacks many METALS to form flammable and explosive <i>Hydrogen gas</i> . <b>Potassium Arsenite</b> decomposes slowly in AIR and CARBON DIOXIDE.

**SPILL/LEAKS**
**Isolation Distance:**

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up and deposit into sealed containers.

DO NOT wash into sewer.

Toxic to aquatic plants and animals.

**PHYSICAL PROPERTIES**
**Odor Threshold:** Odorless

**Flash Point:** Noncombustible

**Water Solubility:** Soluble

**Melting Point:** 572°F (300°C) (decomposes slowly in air)

**Molecular Weight:** 254

**EXPOSURE LIMITS**
**OSHA:** 0.01 mg/m<sup>3</sup>, 8-hr TWA

**NIOSH:** 0.002 mg/m<sup>3</sup>, 15-min Ceiling

**ACGIH:** 0.01 mg/m<sup>3</sup>, 8-hr TWA

**IDLH:** 5 mg/m<sup>3</sup>

 (All the above are for *inorganic Arsenic*)

**PROTECTIVE EQUIPMENT**
**Gloves:** Nitrile and Natural Rubber

**Coveralls:** DuPont Tyvek®

**Respirator:** <0.1 mg/m<sup>3</sup> - Full facepiece APR with High efficiency filter  
 <0.5 mg/m<sup>3</sup> - Supplied air

**HEALTH EFFECTS**
**Eyes:** Irritation, burns and red watery eyes

**Skin:** Irritation, burns, rash and loss of pigment

**Inhalation:** Nose and throat irritation with coughing and wheezing, weakness, nausea, vomiting, headache and muscle cramps

**Chronic:** *Inorganic Arsenic compounds* cause skin, liver, and lung cancer in humans

**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. Seek medical attention immediately.

**Quickly** remove contaminated clothing. Wash contaminated skin with large amounts of water.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

**Transfer** promptly to a medical facility.