

POTASSIUM ARSENITE**ICSC: 1213****Date of Peer****Review:****April 2005**

Potassium metaarsenite
 Arsenious acid, potassium salt
 Potassium arsonate

CAS # 10124-50-2 See Notes
 RTECS # CG3800000
 UN # 1678
 EC # 033-002-00-5

TYPES OF HAZARD / EXPOSURE	ACUTE HAZARDS / SYMPTOMS	PREVENTION	FIRST AID / FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	IN ALL CASES CONSULT A DOCTOR!
Inhalation	Cough. Headache. Laboured breathing. Sore throat. See Ingestion.	Closed system and ventilation.	Fresh air, rest. Refer for medical attention.
Skin	Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Eyes	Redness. Pain.	Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain. Burning sensation in the throat and chest. Vomiting. Diarrhoea. Dizziness. Headache. Shock or collapse.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for

		medical attention.
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SPILLAGE DISPOSAL	PACKAGING & LABELLING
Personal protection: chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment. Sweep spilled substance into sealable plastic containers. Vacuum spilled material. (Vacuum only with special equipment.) Carefully collect remainder, then remove to safe place.	Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Marine pollutant. EU Classification Symbol: T, N R: 23/25-50/53 S: (1/2-)-20/21-28-45-60-61 Note: [A, 1] UN Classification UN Hazard Class: 6.1 UN Pack Group: II
EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-61GT5-II	Separated from acids, strong oxidants, metals, food and feedstuffs. Dry. Well closed. Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access.







Prepared in the context of cooperation between the International Programme on Chemical Safety and the Commission of the European Communities © IPCS, CEC 1999

SEE IMPORTANT INFORMATION ON BACK

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IMPORTANT DATA	
<p>PHYSICAL STATE; APPEARANCE: WHITE HYGROSCOPIC POWDER</p> <p>CHEMICAL DANGERS: Upon heating, toxic fumes are formed. Reacts with acids to produce toxic arsine gas (see ICSC 0222). Attacks many metals forming flammable/explosive gas (hydrogen - see ICSC 0001) and arsine.</p> <p>OCCUPATIONAL EXPOSURE LIMITS: TLV: (as As) 0.01 mg/m³; A1 (confirmed human carcinogen); BEI issued; (ACGIH 2005). MAK: (arsenic and inorganic arsenic compounds) Carcinogen category: 1; Germ cell mutagen group: 3A; (DFG 2004).</p>	<p>ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.</p> <p>INHALATION RISK: A harmful concentration of airborne particles can be reached quickly when dispersed.</p> <p>EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the cardiovascular system, central nervous system, gastrointestinal tract and kidneys, resulting in severe gastroenteritis, loss of fluids and electrolytes, kidney impairment, cardiac disorders, collapse, shock. The effects may be delayed. Medical observation is indicated.</p> <p>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis, pigmentation disorders. The</p>

	<p>substance may have effects on the peripheral nervous system, bone marrow, kidneys, liver and mucous membranes, resulting in neuropathy, lesions of blood cells, kidney impairment, cirrhosis and perforation of nasal septum. This substance is carcinogenic to humans. Animal tests show that this substance possibly causes toxicity to human reproduction or development.</p>
<p>PHYSICAL PROPERTIES</p>	
<p>Decomposes below melting point at 300°C Density: 8.76 g/cm³ Solubility in water: good</p>	
<p>ENVIRONMENTAL DATA</p>	
<p>The substance is toxic to aquatic organisms.</p>	
<p>NOTES</p>	
<p>The compound has variable composition; the commercial grade formula corresponds approximately to KAsO₂. HAsO₂. Depending on the degree of exposure, periodic medical examination is suggested. Do NOT take working clothes home. Fowler's solution is a trade name.</p>	
<p>ADDITIONAL INFORMATION</p>	