

**MAGNESIUM ARSENATE****1209**

October 1999

CAS No: 10103-50-1  
 RTECS No: CG1050000  
 UN No: 1622  
 EC No: 033-005-00-1

Arsenic acid, magnesium salt  
 Magnesium o-arsenate  
 $AsH_3O_4 \cdot xMg$

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>Inhalation</b>	Cough. Sore throat. Headache. Laboured breathing. Weakness. See Ingestion.	Closed system and ventilation.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>Eyes</b>	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.
<b>Ingestion</b>	Abdominal pain. Diarrhoea. Vomiting. Burning sensation in the throat and chest. 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.

**SPILLAGE DISPOSAL**

Vacuum spilled material. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.

**PACKAGING & LABELLING**

T Symbol  
 N Symbol  
 R: 45-23/25-50/53  
 S: 53-45-60-61  
 Note: A; E  
 UN Hazard Class: 6.1  
 UN Pack Group: II

Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Marine pollutant.

**EMERGENCY RESPONSE**

Transport Emergency Card: TEC (R)-61GT5-II

**SAFE STORAGE**

Separated from strong oxidants, food and feedstuffs. Well closed.

### IMPORTANT DATA

**Physical State; Appearance**

WHITE CRYSTALS OR WHITE POWDER.

**Chemical dangers**

Upon heating, toxic fumes are formed. Reacts with strong oxidants to produce toxic fumes.

**Occupational exposure limits**

TLV: (as As) 0.01 mg/m<sup>3</sup>; A1 (confirmed human carcinogen); BEI issued; (ACGIH 2004).

MAK: Carcinogen category: 1; Germ cell mutagen group: 3A; (DFG 2004).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

**Inhalation risk**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

**Effects of short-term exposure**

The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the gastrointestinal tract, cardiovascular system, central nervous system, kidneys, resulting in severe gastroenteritis, loss of fluids and electrolytes, cardiac disorders, kidney impairment and shock. Exposure above the OEL may result in death. The effects may be delayed. Medical observation is indicated.

**Effects of long-term or repeated exposure**

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the skin, mucous membranes, bone marrow, liver and peripheral nervous system, resulting in pigmentation disorders, perforation of nasal septum, lesions of blood cells, liver impairment and neuropathy. This substance is carcinogenic to humans. Animal tests show that this substance possibly causes malformations in human babies.

### PHYSICAL PROPERTIES

Solubility in water: none

### ENVIRONMENTAL DATA

This substance may be hazardous to the environment; special attention should be given to aquatic organisms. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.

### NOTES

Depending on the degree of exposure, periodic medical examination is suggested.

Do NOT take working clothes home.

Technical material is highly hydrated. Molecular mass and density will vary depending on the hydrated form.

Card has been partly updated in April 2005. See sections Occupational Exposure Limits, Emergency Response. October 2005: see section Effects of long-term or repeated exposure.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information