

## **MATERIAL SAFETY DATA SHEET**

### **POTASSIUM ARSENATE**

**CAS NO. : 7784-41-0**

#### **Section 1: Chemical Product and Company Identification**

##### Section 1: Chemical Product

**Product Name: POTASSIUM ARSENATE****CAS#: 7784-41-0****C.I. No.:** Not available.**Synonym:** Potassium dihydrogen arsenate  
Arsenic acidpotassium salt**Chemical Name: POTASSIUM ARSENATE****Chemical Formula: H<sub>2</sub>AsKO<sub>4</sub>****Brand: OXFORD**

##### Details Of The Supplier Of The Safety Data Sheet:

**Company identification: OXFORD LAB FINE CHEM LLP**  
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#### **Section 2: Composition and Information on Ingredients**

##### **Substances**

**Formula: H<sub>2</sub>AsKO<sub>4</sub>****Molecular weight: 180.03 g/mol****CAS-No.: 7784-41-0****Hazardous ingredients according to Regulation (EC) No 1272/2008.**

<b>Component</b>	<b>Classification</b>	<b>Concentration</b>
Potassium dihydrogenarsenate	7784-41-0	<=100%

## Section 3: Hazards Identification

### Classification of the substance or mixture

#### Classification of the substance according to Regulation (EC) No 1272/2008:

Carcinogenicity (Category 1A), H350

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Oral (Category 3), H301

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

**Other hazards** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Contact with water liberates toxic gas.

## Section 4: First Aid Measures

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Indication of any immediate medical attention and special treatment needed

No data available

## Section 5: Fire and Explosion Data

### Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Potassium oxides, Arsenic oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for fire-fighting if necessary.

**Further information:** No data available.

## Section 6: Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Avoid exposure -obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### **Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Combustible solids, toxic.

## Section 8: Exposure Controls/Personal Protection

### **Control parameters**

#### **Exposure controls**

##### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### **Personal protective equipment**

##### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Section 8: Exposure Controls/Personal Protection (Continued)

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a) Appearance Form	: White crystalline, powder
b) Odour	: No data available.
c) Odour threshold	: No data available.
d) pH	: 8.5 -9.0 at 50 g/l at 25 °C
e) Melting point/range	: 277 -283 °C-lit.
f) Initial boiling point andboiling range	: No data available.
g) Autoignition temperature	: No data available.
h) Flammability (solid, gas)	: No data available.
i) Upper/lower flammability or explosive limits	: No data available.
j) Flash point [°C]	: No data available.
k) Evaporation rate	: No data available.
l) Vapour pressure	: No data available.

## Section 9: Physical and Chemical Properties (Continued)

m) Vapour density	: No data available.
n) Relative density,	: 1.880 g/cm <sup>3</sup>
o) Solubility in water	: No data available.
p) Viscosity	: No data available.
q) Explosive properties	: No data available.
r) Oxidising properties	: No data available.
s) Decomposition temperature	: No data available.
t) Autoignition temperature	: No data available.
u) Molecular Weight	: No data available.

## Section 10: Stability and Reactivity Data

**Reactivity** : No data available.

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : No data available.

**Conditions to avoid** : Heat, flames and sparks.

**Incompatible materials** : Strong oxidizing agents, strong acids.

**Hazardous decomposition products**

**Other decomposition products** - Hazardous decomposition products formed under fire conditions.-

Potassium oxides, Arsenic oxides

Other decomposition products-No data available.

## Section 11: Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

No data available (Potassium dihydrogen arsenate)

**Skin corrosion/irritation**

No data available (Potassium dihydrogen arsenate)

**Serious eye damage/eye irritation**

No data available (Potassium dihydrogen arsenate)

## Section 11: Toxicological Information (Continued)

### **Respiratory or skin sensitization**

No data available (Potassium dihydrogen arsenate)

### **Germ cell mutagenicity**

No data available (Potassium dihydrogen arsenate)

### **Carcinogenicity**

Human carcinogen. (Potassium dihydrogen arsenate)

(Potassium dihydrogen arsenate) IARC:

1-Group 1: Carcinogenic to humans (Potassium dihydrogen arsenate)

1-Group 1: Carcinogenic to humans (Potassium dihydrogen arsenate)

### **Reproductive toxicity**

No data available (Potassium dihydrogen arsenate)

### **Specific target organ toxicity - single exposure**

No data available (Potassium dihydrogen arsenate)

### **Specific target organ toxicity - repeated exposure**

No data available (Potassium dihydrogen arsenate)

### **Aspiration hazard**

No data available (Potassium dihydrogen arsenate)

### **Additional Information**

RTECS: CG1100000

Burning, dry nose, dry mouth, Muscle cramps/spasms., Nausea, Vomiting, Diarrhoea, Shock., death, May cause irritation of the:, Gastrointestinal tract

(Potassium dihydrogen arsenate)

## Section 12: Ecological Information

**Toxicity:** No data available.

**Persistence - degradability :** No data available.

**Bioaccumulative potential :** Not established.

**Mobility in soil :** Not established.

**Results of PBT and vPvB assessment :** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects :** Very toxic to aquatic life with long lasting effects.

## Section 13: Disposal Considerations

### Waste treatment methods

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

**Contaminated packaging:** Dispose of as unused product.

## Section 14: Transport Information

### Land transport (ADR-RID)

Proper shipping name : POTASSIUM ARSENATE

UN N° : 1677

ADR - Class : 6.1

### Sea transport (IMDG) [English only]

Proper shipping name : POTASSIUM ARSENATE

UN N° : 1677

IMO-IMDG - Class or division : 6.1

IMO-IMDG - Packing group : II

### Air transport (ICAO-IATA) [English only]

Proper shipping name : Potassium arsenate

UN N° : 1677

IATA - Class or division : 6.1

IATA - Packing group : II

## Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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## **Section 16 - Additional Information**

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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