

# 徐州天昶化工有限公司

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## MSDS FOR POTASSIUM SULPHATE

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### 1. Product Identification

**Synonyms:** Potassium sulphate

**CAS NO.:** 7778-80-5

**Molecular Weight:** 174.26

**Chemical Formula:** K<sub>2</sub>SO<sub>4</sub>

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### 2. Hazards Identification

#### Emergency Overview

**Appearance:** white orthorhombic crystals

**Corrosive. Causes eye and skin burns. Causes digestive and respiratory tract burns.**

#### Potential Health Effects

##### Inhalation:

May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

##### Ingestion:

Causes digestive tract burns with immediate pain, swelling of the throat, convulsions, and possible coma.

##### Skin Contact:

Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

##### Eye Contact

Contact with eyes may cause severe irritation, and possible eye burns.

##### Chronic Exposure:

No information found.

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### 3. First Aid Measures

#### Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:**

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Skin Contact:**

Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes. Lifting upper and lower eyelids occasionally. Get medical attention.

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## 4. Fire Fighting Measures

**Fire Extinguishing Media:**

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

**Special Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

## 5. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

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## 6. Handling and Storage

**Handling:**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not get on skin or in eyes. Do not ingest or inhale.

**Storage:** Store in a cool, dry place.

## 7. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

None established.

**Ventilation System:**

In general, dilution ventilation is a satisfactory health hazard control for this

substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

**Personal Respirators (NIOSH Approved):**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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## 8. Physical and chemical Properties

**Appearance:**

white orthorhombic crystals

**Vapor Pressure:**

0.4(1130degC)

**Density:**

2.669/cm<sup>3</sup>

**Boiling Point:**

1689degC

**Freezing/Melting Point:**

1069 deg C

**Solubility:**

Soluble in water. 111 g/L (20 C)

**Molecular Formula:**

K<sub>2</sub>SO<sub>4</sub>

**Molecular Weight:**

174.27

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## 9. Stability and Reactivity

**Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials.

**Incompatibilities with Other Materials:**

Strong oxidizing agents, aluminum, magnesium, sodium, calcium.

**Hazardous Decomposition Products:**

Oxides of sulfur, irritating and toxic fumes and gases, oxides of potassium.

## 10. Toxicological Information

**Epidemiology:**

No data available.

**Teratogenicity:**

No data available.

**Reproductive Effects:**

No data available.

**Mutagenicity:**

No data available.

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## 11. Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

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## 12. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 13. Transport Information

Not regulated.

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## 14. Regulatory Information

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

None of the chemicals in this product are considered highly hazardous by OSHA.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contain all the information required by the CPR.

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## 15. OTHER INFORMATION

### **Label Precautions:**

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Wash thoroughly after handling.

Keep container closed.

Use only with adequate ventilation.

### **Label First Aid:**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.

Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh

air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth

To an unconscious person. In all cases, get medical attention.