



# MSDS *Material Safety Data Sheet*

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24 Hour Emergency Telephone: 1-800-1-888-6800

All non-emergency should be directed to  
Customer Service (1-800-1-888-6800 x501)S

## POTASSIUM SULFATE

### 1. Product Identification

**Trade Name:** Sulfate of Potash  
**Chemical Name:** Potassium Sulfate  
**Chemical Formula:** K<sub>2</sub>SO<sub>4</sub>  
**Molecular Weight:** 174.26  
**CAS No.:** 7778-80-5

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Potassium Sulfate	7778-80-5	90-100%	No

### 3. Hazards Identification

#### Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Health Rating:** 1 –Slight  
**Flammability Rating:** 0 – None  
**Reactivity Rating:** 0 – None  
**Contact Rating:** 0 – None

## Potential Health Effects

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### **Inhalation:**

Possible nuisance dust effect, sneezing or coughing.

### **Ingestion:**

Ingestion of large amounts may cause gastrointestinal disturbances and irritation.

### **Skin Contact:**

May cause skin irritation.

### **Eye Contact:**

May cause eye irritation.

### **Chronic Exposure:**

Not expected to be a health hazard.

### **Aggravation of Pre-existing Conditions:**

No adverse health effects expected.

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## 4. First Aid Measures

### **Inhalation:**

Remove to fresh air. Get medical attention for any breathing difficulty.

### **Ingestion:**

Never give anything by mouth to an unconscious person. Get medical aid. DO NOT induce vomiting. Allow the victim to rinse his mouth and then to drink water, and seek medical advice.

### **Skin Contact:**

Flush skin with soap and water for at least 15 minutes. Get medical aid if irritation develops or persists.

### **Eye Contact:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical advice if irritation develops or persists.

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## 5. Fire Fighting Measures

### **Fire:**

Not considered to be a fire hazard.

### **Explosion:**

Not considered to be an explosion hazard.

### **Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

### **Special Information:**

Use protective clothing and breathing equipment appropriate for the surrounding fire.

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## 6. Accidental Release Measures

Ventilate area of spill or leak. Wear appropriate personal protective equipment as specified in Section 8.

**Spills:** Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

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## 7. Handling and Storage

### Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

### Storage:

Store in a cool, dry place.

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## 8. 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 Protective Equipment:

#### Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in the work area.

#### Skin:

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respirators:

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator may be worn.

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## 9. Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** White granules, powder or crystal

**Odor:** Odorless

**Solubility:** Soluble in water.

**Boiling Point:** 1689C (3072F)

**Melting Point:** 1067C (1953F)

**Vapor Density:** Not available

**Vapor Pressure:** No information found

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## 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

Oxides of sulfur and potassium

**Incompatibilities:**

Aluminum and magnesium

**Condition to avoid:**

Incompatibles

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## 11. Toxicological Information

LD50 Oral Rat: 6600 mg/kg

Epidemiology:

No information available

Reproductive Effects:

No information available.

Neurotoxicity:

No information available

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## 12. Ecological Information

**Environmental Fate:**

Potassium Sulfate has no biological oxygen demand, and it will not cause oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms.

**Environmental Toxicity:**

No information found.

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## 13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

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## 14. Transport Information

Not regulated

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## 15. Regulatory Information

TSCA

CAS # 7778-80-5 is listed on the TSCA inventory

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## 16. Other Information

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 0

**Label Hazard Warning:**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

**Label Precautions:** None

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