



POTASSIUM SULFATE (K₂SO₄)
PRODUCT MATERIAL SAFETY DATA SHEET (MSDS)

REVISION HISTORY

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TABLE OF CONTENTS

<u>1 DISCLAIMER.....</u>	<u>1</u>
<u>2 POTASSIUM SULFATE (K₂SO₄)</u>	<u>2</u>

1 DISCLAIMER

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2 POTASSIUM SULFATE (K₂SO₄)

2.1 PRODUCT IDENTIFICATION

Chemical Name Potassium Sulfate

Trade Name Sulfate of Potash

2.2 HAZARDS IDENTIFICATION

TOXICITY ROUTES OF EXPOSURE

- Ingestion** Ingestion of large amounts may cause gastrointestinal disturbances and irritation.
- Inhalation** Possible nuisance dust effect, sneezing or coughing.
- Skin Contact** May cause skin irritation.
- Eye Contact** May cause eye irritation.

CHRONIC EXPOSURE

Not expected to be a health hazard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

No adverse health effects expected

2.3 COMPOSITION / INGREDIENTS

Potassium Sulfate, %	90-100%
Chemical Formula	K ₂ SO ₄
Molecular Weight	174.26
CAS Registry No:	7778-80-5

2.4 FIRST AID MEASURES

- Skin Flush skin with soap and water for at least 15 minutes
- Eyes Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids
- Inhalation Remove to fresh air.
- 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.

SEEK MEDICAL ATTENTION IMMEDIATELY

2.5 FIRE FIGHTING MEASURES

- Autoignition Point Not Applicable
- Flash Point Not Applicable
- Flammability / Explosive limits: Not Applicable
- Fire / Explosion Hazards: Not a fire or explosion hazard
- Fire Prevention / Extinguishing Media Use any means suitable for extinguishing surrounding fire
- Special Information Use protective clothing and breathing equipment appropriate for the surrounding fire.

2.6 ACCIDENTAL RELEASE MEASURES

Ventilate area of spill or leak. Wear appropriate personal protective equipment as specified in Section 5.8.

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

2.7 HANDLING AND STORAGE

Storage Requirements: Store in a cool dry place.

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

2.8 EXPOSURE CONTROLS AND PROTECTION

Airborne Exposure Limits Not established.

Ventilation: 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.

Protective Equipment for the Eyes and Skin: Wear appropriate protective eyeglasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in the work area. Wear appropriate protective gloves and clothing to prevent skin exposure.

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

2.9 PHYSICAL AND CHEMICAL PROPERTIES

State Solid

Appearance White granules, powder or crystal

Odor Odorless

Boiling Point 1689C

Melting Point 1067C

Vapor Density Not available

Vapor Pressure No information found

Solubility In Water: Soluble

2.10 STABILITY AND REACTIVITY

Stability Stable under ordinary conditions of use and storage.

Hazardous decomposition product Oxides of sulfur and potassium

Incompatibles: Aluminum and magnesium

Conditions to avoid: Incompatibles.

2.11 TOXICOLOGICAL INFORMATION

LD50 Oral Rat: 6600mg/kg

Reproductive Effects No Data Available

Neurotoxicity No Data Available

Epidemiology No Data Available

2.12 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.

2.13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Government and Local regulations.

2.14 TRANSPORT INFORMATION

Not regulated.

2.15 REGULATORY INFORMATION

No data available.

2.16 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