

SECTION I NAME

PRODUCT POTASSIUM SULFATE
CHEMICAL SYNONYMS Potassium Sulfate
FORMULA K₂SO₄
UNITS(S) SIZE 100 ~ 500 grams, 2.5 Kg
C.A.S. No. 7778-80-5



CHEMREC 800-424-9300
Health 1
Fire 0
Reactivity 0
HAZARD RATING
NFPA: Health 0, Fire 0, Reactivity 0
NFPA: Health 1, Fire 2, Reactivity 0

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)
Potassium Sulfate
TLV Units: None established

Low hazard for usual laboratory handling; non-toxic.

SECTION III PHYSICAL DATA

Melting Point (°F) 1067°C (1953°F)
Boiling Point (°F) 1689°C (3072°F)
Vapor Pressure (mm Hg) Legible as solid
Vapor Density (air = 1) data not listed
Solubility in Water 12 grams per 100 ml water at 20°C.
Appearance and Odor White crystals or powder; no odor.
Flash Point (Method Used) Non-flammable (NA)
Extinguisher Use any media suitable for extinguishing supporting fire.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Special Firefighting Procedures None known. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products.

D.O.T. NON-REGULATED



FREY SCIENTIFIC
905 HICKORY LANE MANSFIELD OHIO 44905
MSDS No. Effective Date

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

Threshold Limit Value

None established. (ACGIH 1983-84)
LD 50: In guinea pig: 1.0 g/kg.

Effects of Overexposure

IRITATION: Low hazard for usual laboratory handling.
EYES: No specific hazard known to us. However, any material that contacts the eye may be irritating.
SKIN: Low hazard for usual laboratory handling.
INGESTION: Swallowing large doses causes severe G. I. irritation.

Emergency and First Aid Procedures

IRITATION: Remove to fresh air. If symptoms of illness develop, get medical attention.
EYES: Flush thoroughly with water for at least 15 minutes. If irritation develops or persists, get medical attention.
SKIN: Flush with water.
INGESTION: If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician.

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SECTION V REACTIVITY DATA

Stability Unstable
Incompatibility (Materials to avoid) Active metals, such as aluminum and magnesium.
Hazardous Decomposition Products oxides of sulfur.
Hazardous Polymerization Will not occur.
May Occur Not applicable.

SECTION VI SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Sweep up and place in a suitable container. Flush spill area with water.

SECTION VII WASTE DISPOSAL METHOD

Dissolve in water and flush to sewer with copious amounts of water or dispose of uncontaminated material in a sanitary landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

Dechloro, treatment, or disposal may be subject to federal, state, or local laws.
Respirator Protection None should be needed in normal laboratory handling. If dusty conditions prevail, work in fume hood or wear a NIOSH-approved dust mask.
Ventilation Local Exhaust Recommended
Protective Gloves None needed
Other Protective Equipment Apron, smock, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing Store in a cool, dry place. Wash thoroughly after handling.
Other Precautions Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Rev. No. *10/1* Date *11/2/87* Approved *Michael J. Carroll* Chemical Safety Coordinator

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