

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	SODIUM SULFATE, ANHYDROUS
Chemical Synonyms	Disodium Sulfate
Formula	Na ₂ SO ₄
Unit(s) Size	100, 500 grams; 2.5 Kg.
C.A.S. No.	7757-82-6

CHEMTREC
800-424-9300
Day 716-226-6177
Night 716-334-4222

Health	0
Fire	0
Reactivity	0

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS *
0 1 2 3 4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Sodium Sulfate	100%	None established.

CAUTION! MAY CAUSE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	888°C (1630°F)	Specific Gravity (H ₂ O = 1)	2.698 at 20°C
Boiling Point (°F)	>1000°C (1832°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Acetate = 1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	17 grams per 100 mL. water at 20°C.		
Appearance & Odor	Fine, white crystalline granules or powder; no odor. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

Although not flammable, if involved in a fire, firefighters should wear full protective clothing, and if acrid fumes develop, use NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of oxides of sulfur (SO_x).

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established. (ACGIH 1983-84). Acute Oral (Rat) LD₅₀ 3200-6400 mg/kg. Nuisance particulate (TWA 10 mg/m³) (AIR).

Effects of Overexposure
INHALATION: Dust inhalation may irritate nose, throat and lungs.
INGESTION: Not generally considered toxic. However, if swallowed, irritation may develop in the mouth, esophagus and stomach. May cause purging.
SKIN: Effects minimal, but irritation may result from prolonged skin contact.
EYES: Contact with dust or mist may irritate eyes. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

SKIN: Flush with water until all chemical is removed, then wash with soap and water. Remove contaminated clothing and wash before reuse. **EYES:** Flush promptly with plenty of water for at least 15 minutes; get medical attention if irritation persists. **INGESTION:** If conscious, give two to four glasses of water, then induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. Get medical attention for irritation or discomfort.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Protect from moisture (hygroscopic); keep tightly closed.
	Stable		

Incompatibility (Materials to Avoid) Molten active metals, including aluminum and magnesium. Contact with acids.

Hazardous Decomposition Products Burning or thermal decomposition may produce fumes of oxides of sulfur (SO_x).

Hazardous Polymerization	May Occur	Will Not Occur	Conditions to Avoid	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Sweep up and place in a suitable container. Flush area with water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH-approved dust mask or respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber for repeated contact. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, lab coat, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place. Keep dry. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes or clothing. Avoid breathing dust. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. No. 3	Date 10/21/92	Approved Alexander A. Piccirilli	Chemical Safety Coordinator	AP
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