



SODIUM SULFATE

A. GENERAL INFORMATION

TRADE NAME (COMMON NAME) SODIUM SULFATE (all grades)	<input checked="" type="checkbox"/> C.A.S. NO 7757-82-6	<input type="checkbox"/> GENERAL PRODUCT CODE *
CHEMICAL NAME AND/OR SYNONYM Sodium Sulfate Synonyms: Disodium sulfate; sodium sulfate anhydrous.		
FORMULA Na ₂ SO ₄	MOLECULAR WEIGHT 142.04	
ADDRESS (No., STREET, CITY, STATE AND ZIP CODE) GENERAL CHEMICAL CORPORATION CN 1829 Morristown, N.J. 07960-1829		
CONTACT Director Environmental Matters	PHONE NUMBER (201) 455-5630	LAST ISSUE DATE CURRENT ISSUE DATE Sept. 1986

B. FIRST AID MEASURES

<p><u>Skin:</u> Wash with soap and water, then flush with water until all chemical is removed. Remove contaminated clothing and wash before reuse.</p> <p><u>Eyes:</u> Flush promptly with plenty of water for at least 15 minutes; get medical attention if irritation persists.</p> <p><u>Ingestion:</u> If conscious, give 2 to 4 glasses of water, then induce vomiting by touching back of throat with finger. Get medical attention.</p> <p><u>Inhalation:</u> Remove to fresh air; if breathing is difficult, give oxygen if a qualified operator is available. Get medical attention for irritation or discomfort from dust inhalation.</p>	EMERGENCY PHONE NUMBER (201) 455-3700
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C. HAZARDS INFORMATION
HEALTH

INHALATION Dust inhalation may irritate nose, throat and lungs.	
INGESTION Not generally considered toxic (oral-mouse LD ₅₀ : 5989 mg/kg). However, if swallowed, irritation may develop in the mouth, esophagus and stomach. The sulfate ion draws water into the intestines and causes purging.	
SKIN Effects of sodium sulfate are minimal, but irritation may result from prolonged skin contact.	
EYES Contact with dust or mist may irritate eyes.	
PERMISSIBLE CONCENTRATION, AIR (SEE SECTION J) No TWA or TLV limits established.	BIOLOGICAL None established.
UNUSUAL CHRONIC TOXICITY None known.	

C. HAZARDS (Cont.)**FIRE AND EXPLOSION**

FLASH POINT	OC	AUTO IGNITION TEMPERATURE	OC	FLAMMABLE LIMITS IN AIR (% BY VOL.)	
Not flammable		Not Applicable		LOWER – Not Applicable	UPPER – Not Applicable
<input type="checkbox"/> OPEN CUP	<input type="checkbox"/> CLOSED CUP				
UNUSUAL FIRE AND EXPLOSION HAZARDS					
We know of none, other than potential explosion resulting if sodium sulfate is melted with aluminum.					

D. PRECAUTIONS/PROCEDURES

FIRE EXTINGUISHING AGENTS RECOMMENDED	
Any standard agent.	
FIRE EXTINGUISHING AGENTS TO AVOID	
None known.	
SPECIAL FIRE FIGHTING PRECAUTIONS	
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. Cool fire-exposed containers with water spray.	
VENTILATION	
Provide local exhaust if dusty conditions prevail. Natural ventilation is generally adequate in the absence of this condition.	
NORMAL HANDLING	
Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly after handling and follow good personal hygiene and good housekeeping practices. Keep containers closed. Handle in a manner to minimize dusting.	
STORAGE	
Store in a cool, dry place. Keep well closed and protect from moisture.	
SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT – SECTION E)	
Shovel up dry chemical for use or disposal. Sweep up with a minimum of dusting and maximize recovery. Flush residue with water, if permitted by applicable disposal regulations. (See Section I for disposal methods.)	
SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS	SIGNAL WORD – WARNING!
Any necessary precautions are believed to be adequately covered under above headings in this section.	

E. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION
Under normal conditions, not required. Where dusty conditions develop, use a NIOSH-approved respirator for dusts.
EYES AND FACE
Under normal conditions, wear safety glasses in the work place. Under dusty conditions, wear chemical safety goggles. Do not wear contact lenses.
HANDS, ARMS, AND BODY
Wear long-sleeve shirt and trousers and gloves for routine product use or handling.
OTHER CLOTHING AND EQUIPMENT
Not normally required.

F. PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS): <input type="checkbox"/> LIQUID <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> GAS <input type="checkbox"/> _____		APPEARANCE AND ODOR White powder or granular material. Odorless.	
BOILING POINT N.A. °C MELTING POINT 888°C	SPECIFIC GRAVITY (H ₂ O = 1) 2.68	VAPOR DENSITY (AIR = 1) N.A.	
SOLUBILITY IN WATER (% by Weight) 17% @ 20°C	pH 5% solution @ 25°C, pH: 5.2 – 8.2	VAPOR PRESSURE (mm Hg at 20°C) <input type="checkbox"/> (PSIG) <input type="checkbox"/> N.A.	
EVAPORATION RATE (Butyl Acetate = 1) <input type="checkbox"/> (Ether = 1) <input type="checkbox"/> N.A.	% VOLATILES BY VOLUME (At 20°C) N.A.		

G. REACTIVITY DATA

STABILITY <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	CONDITIONS TO AVOID Protect from moisture (hygroscopic); keep tightly closed.
INCOMPATIBILITY (MATERIALS TO AVOID) Molten active metals, including aluminum and magnesium.	
HAZARDOUS DECOMPOSITION PRODUCTS N.A.	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID None known.

H. HAZARDOUS INGREDIENTS (Mixtures Only)

MATERIAL OR COMPONENT / C.A.S. #	WT. %	HAZARD DATA (SEE SECT. J)
Not Applicable		

I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY		OCTANOL/WATER PARTITION COEFFICIENT	
Degradability: N.A.		Unknown	
Aquatic Toxicity: No data found.			
EPA HAZARDOUS SUBSTANCE? (CLEAN WATER ACT SECT. 311)		IF SO, REPORTABLE QUANTITY: _____ #	
YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS)			
If regulations permit, dissolve waste product in water and flush to sewer. Disposal must be in accordance with applicable disposal regulations and may have to be handled through an approved chemical waste contractor.			
RCRA STATUS OF <u>UNUSED</u> MATERIAL IF DISCARDED:		HAZARDOUS WASTE NUMBER: (IF APPLICABLE)	
Not a "hazardous waste".		N.A.	
		40 CFR 116-117	
		40 CFR 261	

J. REFERENCES

PERMISSIBLE CONCENTRATION REFERENCES		
No TWA, TLV or Biological Action Level values established.		
REGULATORY STANDARDS	D.O.T. CLASSIFICATION:	49 CFR 173
Not regulated by the D.O.T. per 49 CFR 172.101	N.A.	
GENERAL		
NIOSH Registry (RTECS), 1981-82, Accession No. WE1650000.		
Merck Index, 10th ed., 1983, Monograph 8526.		
Chemical Condensed Dictionary, 10th ed., 1981.		
NFPA 491M - 1975, "Manual of Hazardous Chemical Reactions", 8th ed., 1984.		

K. ADDITIONAL INFORMATION

Not for food or drug use.

PSDS FILE#- GC 3018

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