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MATERIAL SAFETY DATA SHEET

575405 Sodium Disulfate

HEALTH HAZARD DATA

SS0290

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

MSDS No.: SS0290
Effective Date: January 1, 2007

Product	Sodium Bisulfate
Chemical Synonyms	Sodium Acid Sulfate, Sodium Hydrogen Sulfate
Formula	NaHSO ₄
Unit Size	up to 2.5 Kg.
C.A.S. No.	7681-38-1

	CHEMTREC 800-424-9300 Day 585-226-6177		Health	3
	HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4		File	0
			Reactivity	0
			HMS*	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium bisulfate	100%	See Section V.

DANGER! CORROSIVE! CAUSES SEVERE BURNS TO SKIN, EYES AND

MUCOUS MEMBRANES. HARMFUL IF SWALLOWED OR INHALED. MOISTURE SENSITIVE.

SECTION III PHYSICAL DATA

Melting Point (°F)	177°C (350°F)	Specific Gravity (H ₂ O = 1)	2.435 @ 13°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (n-butyl acetate = 1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	White crystalline powder, globular, crystals; no odor. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

(1986 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Sulfuric acid is highly corrosive and causes severe burns on contact. Product readily dissolves in water to form weak Sulfuric acid solution. Dangerous: when heated to decomposition, it emits highly toxic fumes of oxides of sulfur. will react with water or steam to produce heat and toxic fumes.

D.O.T. Corrosive solids, n.o.s., (Sodium hydrogen sulfate), 8, UN1759, PG III

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

SECTION V

Threshold Limited Value

None established. Estimated human oral lethal dose is 10 to 30 grams. Oral LD₅₀ Rat: 2800 mg/kg; Eye Irritation Rabbit - severe irritation.

Effects of Overexposure

INGESTION: May irritate or burn mouth, esophagus or stomach. **SKIN:** Prolonged or repeated skin contact may cause severe burns. **SKIN:** Prolonged or repeated skin contact may cause skin irritation and/or burns. **INHALATION:** Dust may cause upper respiratory tract irritation. May irritate or burn nose, throat or lungs. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Stable	Conditions to Avoid
	X		Moisture - sulfuric acid is liberated on contact. Excessive temperature and heat.

Incompatibility (Materials to Avoid)

Alkalies and strong oxidizers and permanganates. Reacts with water to form weak Sulfuric acid solution.

Hazardous Decomposition Products

When heated to decomposition emits toxic fumes of oxides of sulfur.

Hazardous Polymerization

May Occur Will Not Occur X Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Wearing proper safety equipment and using adequate ventilation, sweep up and place in a suitable container for proper disposal. Dissolve in water, neutralize with soda ash and flush to sewer with copious amounts of 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. If federal, state and local regulations permit, dissolve in water, neutralize with soda ash and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA approved dust mask or respirator.
Ventilation	Local Exhaust Recommended. Special Other No.
Protective Gloves	Mechanical (General) Recommended. Other No.
Other Protective Equipment	Rubber. Eye Protection Chemical safety goggles.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Keep container tightly closed when not in use. Hygroscopic. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No.	8	Date	01/01/07	Approved	James A. Bertsch	Chemical Safety Coordinator	JAB
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