

SAFETY DATA SHEET



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SODIUM SULFATE ANHYDROUS

SDS No. M0384

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Sulfate Anhydrous

Synonyms: Bisodium sulfate; Dibasic sodium sulfate; Disodium monosulfate; Disodium sulfate; Sodium sulphate; Sulfuric acid, disodium salt

Recommended Use: This product is recommended for laboratory and manufacturing use only. It is not recommended for drug, food or household use.

2. HAZARDS IDENTIFICATION

Not classified as a hazardous substance.

Emergency Overview

May cause irritation of eyes, skin, and respiratory tract. Hygroscopic. The toxicological properties of this material have not been fully tested.

HMIS Rating:

Health – 0 Flammability – 0 Physical Hazard – 0 PPE – User supplied

NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Sodium Sulfate Anhydrous	7757-82-6	>99%	Yes

4. FIRST-AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, begin artificial respiration. If breathing is difficult, give supplemental oxygen. Get medical aid.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have person lean forward. Get medical aid.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing and thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Notes to Physician: Treat symptomatically and supportively.

Clear focus. Consistent results. Complete confidence.

5. FIRE FIGHTING MEASURES

Flammability: Not expected to be a fire hazard

Products of Combustion: Will decompose into toxic and irritating gases (sodium oxide, oxides of sulfur) under fire conditions.

Specific Fire Hazards: As in any fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

Specific Explosion Hazards: None

Fire Fighting Media: Use extinguishing media appropriate to the surrounding fire.

National Fire Protective Association: Health - 0, Flammability - 0, Reactivity - 0

NOTE: NFPA ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. They are for use by emergency personnel to address the hazards that are presented by short term, acute exposure to this product under fire, spill, or similar emergencies. Ratings involve data and interpretations that may vary from company to company.

6. ACCIDENTAL RELEASE MEASURES

Sweep up spilled material and place in a suitable container. Avoid dust generation. Always use proper personal protective equipment as described in section 8.

7. HANDLING AND STORAGE

Precautions: Wash thoroughly after handling. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Keep in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protection: Wear protective chemical goggles or appropriate eye protection. Use appropriate protective gloves and protective clothing to prevent skin exposure. A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever possible. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Exposure Limits: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: White powder.

Odor: Odorless

Molecular Formula: Na₂SO₄

Molecular Weight: 142.04

Auto-ignition Temperature: Not available.

Flash Point: Not available.

Flammable Limits: Not available.

pH: 5-8 in 5% solution

Boiling Point: 1700° C

Freezing/Melting Point: 880-888° C

Decomposition Temperature: Not available

Specific Gravity: Not available.

Vapor Density (Air=1): Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Solubility: Soluble in water

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures. Hygroscopic.

Conditions to Avoid: Incompatible materials, dust generation, moisture, excess heat.

Incompatibility With Various Substances: Strong oxidizing agents, strong acids, aluminum, magnesium.

Hazardous Decomposition Products: Sodium oxide, oxides of sulfur.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, ingestion, skin contact

Acute Exposure Hazards:

INHALATION HAZARD: May cause irritation of the respiratory tract. May be harmful if inhaled.

INGESTION HAZARD: May cause irritation of the digestive tract with nausea, vomiting, and possible burns. May be harmful if swallowed.

SKIN CONTACT HAZARD: May cause skin irritation. May cause allergic reaction in certain individuals.

EYE CONTACT HAZARD: May cause eye irritation. May cause redness and pain.

Chronic Exposure Hazards: No information available.

Animal Toxicity:

Oral, mouse: LD50 = 5989 mg/kg;

Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

Epidemiology: No information available.

Teratogenicity: Oral, mouse: TDLo = 14 gm/kg (female 8-12 day(s) after conception) Effects on Newborn - other neonatal measures or effects.; Parenteral, mouse: TDLo = 60 mg/kg (female 8 day(s) after conception) Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus) and Specific Developmental Abnormalities - musculoskeletal system.

Mutagenicity: Mutagenic effects have occurred in experimental animals.

Neurotoxicity: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This chemical is not expected to cause oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms and is expected to have a low potential to affect secondary waste treatment microorganisms.

Fish: Bluegill/Sunfish: LC50 = 12,750 ppm; 96 Hr; Static bioassay

Water flea Daphnia: LC50 = 4547 mg/L; 96 Hr; Unspecified

Fish: Fathead Minnow: LC50 = 13,500-14,000 mg/L; 24 - 96 Hr; Unspecified

Fish: Mosquito Fish: LC50 = 17,500 mg/L; 96 Hr; Unspecified

Environmental Fate: Sodium sulfate may persist indefinitely in the environment, but is not likely to show bioaccumulation or food chain contamination effects. If diluted with water, this chemical released directly or indirectly into the environment is not expected to have a significant impact. This material is not likely to bioconcentrate.

13. DISPOSAL CONSIDERATIONS

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions found in 40 CFR 261.3. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Not regulated for transportation.

15. REGULATORY INFORMATION

US Federal Regulations:

CERCLA Hazardous Substances: CAS# 7757-82-6: Not listed.

SARA Section 302: Does not have a TPQ

SARA Codes: CAS# 7757-82-6 – none

Section 313: Sodium sulfate (CAS# 7757-82-6) is not subject to SARA Title III Section 313 and 40 CFR 373 reporting requirements.

OSHA: Not considered highly hazardous by OSHA.

US State Regulations:

CAS# 7757-82-6 is listed on following state right-to-know lists: New Jersey, Pennsylvania, and Massachusetts

California Prop 65: This product contains no chemicals known to the State of California known to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

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Last Revised: 11/22/2014 – Updated Section 2.

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

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