

# Safety Data Sheet

## 1. IDENTIFICATION:

**Product Name:** SODIUM SULPHATE

**Synonyms:** Salt Cake, Disodium sulfate

**CAS Number:** 7757-82-6

**Catalog Numbers:** 10235 W2T15555 U23934

**Product Use:** Analytical / Laboratory Reagent

**Manufacturer:** HF Scientific, Inc

**Address:** 3170 Metro Parkway Fort Myers, FL 33916

**General Information:** 888-203-7248

**Transportation Emergency Number:** CHEMTREC® 24 hr US 800-424-9300

CHEMTREC® 24 hr International 703-527-3887

## 2. HAZARDS IDENTIFICATION

### GHS Classification

| Health   | Environmental          | Physical      |
|--|------------------------|---------------|
| Acute toxicity: Category 5<br>Skin irritation: Category 3<br>Eye irritation: Category 2B | Aquatic toxicity: None | Flammable: No |

### GHS Label

| Pictogram: No symbol   | Signal Word: WARNING   |
|--|--|
| <b>Hazard Statements:</b><br>May be harmful if swallowed<br>May be harmful in contact with skin<br>May be harmful if inhaled<br>Causes mild skin irritation<br>Causes eye irritation | <b>Precautionary Statements</b><br>IF INHALED move patient immediately to uncontaminated atmosphere. Except in minor cases of exposure without symptoms, seek medical advise promptly.<br>IF IN EYES immediately flush eyes gently with copious amount of water for a minimum of 15 minutes. Use fingers to assure that eyelids are separated and that eye is being irrigated. Call a physician. |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component       | Cas Number | Weight % |
|-----------------|------------|----------|
| Sodium sulphate | 7757-82-6  | 100%     |

## 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes gently with copious amount of water for a minimum of 15 minutes. Use fingers to assure that eyelids are separated and that eye is being irrigated. Call a physician.

**Skin Contact:** Remove contaminated clothing. Flush contaminated area with copious quantities of water for 15 minutes. Call a physician.

**Inhalation:** Move patient immediately to uncontaminated atmosphere. Except in minor cases of exposure without symptoms, seek medical advised promptly.

**Ingestion:** Do not induce vomiting. Seek medical attention promptly. If vomiting occurs, take steps to avoid aspiration of vomited material into respiratory tract. To prevent choking, position body so that material is freely ejected. Give milk, water containing milk of magnesia or olive oil.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not burn. Use any means suitable for extinguishing the surrounding fire.

**Fire Fighting Procedures:** Normal fire fighting procedure may be used. In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

**Unusual Fire and Exposure Hazards:** Container may burst in the heat of fire

**Combustion Products:** N/A

**NFPA Classification** HEALTH: 1 FLAMMABLE: 0 REACTIVITY: 0

## 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## 7. HANDLING AND STORAGE

**Handling:** Wash well after handling. Avoid breathing vapors.

**Storage:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

OSHA Permissible Exposure Limit (PEL): 5 mg/m<sup>3</sup> (TWA)

ACGIH Threshold Limit Value (TLV): 10 gm/m<sup>3</sup> (TWA)

**Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document "Industrial Ventilation, A Manual of Recommended Practices" most recent edition for details.

### Personal Protective Equipment:

**Eyes:** Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eyewash fountain and quick-drench facilities in work area.

**Skin:** Wear lab coat or apron and latex or nitrile gloves

**Respiratory:** If the TLV is exceeded, wear a supplied air, full facepiece respirator, airlined hood, or self-contained breathing apparatus. Nitric acid is an oxidizer and should not come in contact with cartridges and canisters that contain oxidizable materials, such as activated charcoal.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flashpoint:** N/A

**Autoignition Temperature:** N/A

**Boiling Point:** N/A

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**% Solubility in Water:** 22% @ 25°C (Crystals)

**Pour Point:** N/A

**Molecular Formula:** Na<sub>2</sub>SO<sub>4</sub>

**Odor / Appearance:** odorless white crystals or powder

**Lower Flammability Limit:** N/A

**Upper Flammability Limit:** N/A

**Specific Gravity:** 2.671 @ 25°C

**% Volatile:** N/A

**Evaporation Rate (Water=1):** N/A

**Viscosity:** N/A

**Octanol / Water Partition Coefficient:** N/A

**pH:** N/A

**Molecular Weight:** 322.20

## 10. STABILITY AND REACTIVITY

**Stability / Incompatibility:** Stable under ordinary conditions of use and storage.

Containers may burst when heated. Incompatibilities: In combination with sodium sulfate, aluminum and magnesium will explode @ 800C (1472F); strong mineral acids and bases. Conditions to Avoid: air and incompatibles.

**Hazardous Reactions / Decomposition Products:** Oxides of sulfur and sodium may form when heated to decomposition. Hazardous Polymerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Symptoms of Overexposure:** May cause irritation to skin, eyes and respiratory tract.

**Acute Effects:** May cause irritation to skin, eyes and respiratory tract.

**Eye Contact:** Irritation of the eyes

**Skin Contact:** Irritation of the skin

**Inhalation:** Irritation of the respiratory tract

**Ingestion:** N/A

**Target Organs Effects:** N/A

**Chronic Effects:** Repeated or prolonged exposures may cause mild skin irritation due to physical abrasiveness.

**Medical Conditions Aggravated by Exposure:** Preexisting skin disorders and eye problems may be aggravated by exposure to this chemical.

**Acute Toxicity Values:** N/A

## 12. ECOLOGICAL INFORMATION

**Environmental Fate:** When released into the soil, this material is expected to leach into groundwater. This material is not expected to significantly bioaccumulate.

**Environmental Toxicity:** This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l. The EC50/48-hour values for daphnia are over 100 mg/l.

## 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. TRANSPORT INFORMATION**

US DOT (United States Department of Transportation): Not regulated  
IATA (International Air Transport Association): Not regulated  
IMO (International Maritime Organization): Not regulated

**15. REGULATORY INFORMATION**

CERCLA: No  
SARA/Title III: No  
TSCA Inventory: No  
Cal. Proposition 65: No  
WHMIS: No  
DSL: Yes  
NDSL: No

**16. OTHER INFORMATION**

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

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