

# **Material Safety Data Sheet**

Date Printed: 03/24/2004 Date Updated: 12/05/2002 Version 1,50

## Section 1 - Product and Company Information

Product Name Product Number SODIUM SULFATE ANHYDROUS \$9627

Product Number Brand

Sigma Chemical

Company

Sigma-Aldrich

Street Address City, State, Zip, Country 3050 Spruce Street

City, State, Zip, Country Technical Phone: SAINT LOUIS, MO 63103 US 314 771 5765

800 325 5052

**Emergency Phone:** 

414 273 3850 Ext. 5996

# Section 2 - Composition/Information on Ingredient

Substance Name

SODIUM SULFATE ANHYDROUS

<u>CAS#</u> 7757-82-6 **SARA 313** 

Formula

Fax:

Na2SO4

Synonyms Bisodium

Bisodium sulfate, Dibasic sodium sulfate, Disodium monosulfate, Disodium sulfate, Kemol, Natriumsulfat (German), Salt cake, Sodium sulfate anhydrous, Sodium sulphate, Sulfuric acid,

disodium salt, Thenardite

## Section 3 - Hazards Identification

**HMIS Rating** 

Health: 0

Flammability: 0

Reactivity: 1

NFPA Rating

Health: 0

Flammability: 0

Reactivity: 1

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Dermal Exposure** 

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposur

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

**Extinguishing Media** 

Suitable

Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

#### Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

Handling

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed. Store in a cool dry place.

Special Requirements

Hygroscopic.

#### Section 8 - Exposure Controls / PPE

**Engineering Controls** 

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Government approved respirator.

riand

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

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## General Hygiene Measures

Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

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Color White Form

Fine crystals

Molecular Weight:

142.04 AMU

 pH
 N/A

 BP/BP Range
 N/A

 MP/MP Range
 864 °C

 Freezing Point
 N/A

 Vapor Pressure
 N/A

 Vapor Density
 N/A

 Saturated Vapor Cone.
 N/A

 SG/Density
 A

 N/A
 N/A

 SG/Density
 2.68 g

 Bulk Density
 N/A

 Odor Threshold
 N/A

 Volatile%
 N/A

 VOC Content
 N/A

 Water Content
 N/A

 Solvent Content
 N/A

 Evaporation Rate
 N/A

 Viscocities
 N/A

Evaporation Hate

Viscosity

Viscosity

N/A

Partition Coefficient

N/A

Decomposition Temp.

Flash Point °F

N/A

Flash Point °C

Explosion Limits

N/A

Flammability N/A
Autoignition Temp N/A
Solubility

Solubility in Water: 1 M in H2O, 20°C, complete, colorless

N/A = not available

### Section 10 - Stability and Reactivity

# Stability

Stable

Stable.
Conditions to Avoid

Protect from moisture.

Materials to Avoid

Strong acids, Aluminum, Magnesium.

#### Hazardous Decomposition Products

Hazardous Decomposition Products

Sulfur oxides.

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#### **Hazardous Polymerization**

Hazardous Polymerization

Will not occur.

#### Section 11 - Toxicological Information

#### **Route of Exposure**

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eve Contact

May cause eye irritation.

Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed.

RTECS Number: WE1650000

#### **Toxicity Data**

Oral - Mouse: 5,989 mg/kg (LD50)

Intravenous - Rabbit: 1220 MG/KG (LD50)

#### Chronic Exposure Carcinogen

Mouse - Subcutaneous: 806 MG/KG 26W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

#### Chronic Exposure - Teratogen

Species Mouse Dose 60 MG/KG Route of Application
Parenteral

Exposure Time (8D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific Developmental Abnormalities: Musculoskeletal system.

## Chronic Exposure - Reproductive Hazard

Species Mouse Dose 14 GM/KG Route of Application

Exposure Time (8-12D PREG)

Result: Effects on Newborn: Other neonatal measures or effects.

# Section 12 - Ecological Information

No data available.

#### Section 13 - Disposal Considerations

## Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

DO.

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

ΙΔΤ

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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# Section 15 - Regulatory Information

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL: Yes NDSL: No

Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.