

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **Sodium Sulfate, Enriched in Sulfur**

Chemical Formula N₂SO₄

Molecular Weight 142.04 amu

CAS No. 7757-82-6

RTECS No. WE1650000

Common Synonyms Bisodium sulfate, Dibasic sodium sulfate, Disodium monosulfate, Disodium sulfate, Kemol, Natriumsulfat (German), Salt cake, Sodium sulfate anhydrous, Sodium sulphate, Sulfuric acid, disodium salt, Thenardite

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2. HAZARDS IDENTIFICATION

Emergency Overview:

NFPA Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 1 Flammability = 0 Reactivity = 1



HMIS Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 1 Flammability = 0 Physical Hazard = 1

HEALTH HAZARD	1
FLAMMABILITY	0
PHYSICAL HAZARD	1

For additional information on toxicity, please refer to Section 10.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name	Sodium Sulfate, Enriched in Sulfur
Chemical Formula	Na ₂ SO ₄
Molecular Weight	142.04 amu
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4. FIRST AID MEASURES

<i>Oral</i>	If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
<i>Inhalation</i>	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
<i>Dermal Exposure</i>	In case of contact, immediately wash skin with soap and copious amounts of water.
<i>Eye Exposure</i>	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.

5. FIREFIGHTING MEASURES

<i>Flash Point</i>	Not available
<i>Autoignition Temperature</i>	Not available
<i>Flammability</i>	Not available
<i>Suitable Extinguishing Media</i>	Noncombustible; use extinguishing media appropriate to surrounding fire conditions.

Firefighting

<i>Protective Equipment:</i>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<i>Specific Hazard</i>	Emits toxic fumes under fire conditions. Sulfur oxides (SO _x) may be released.

6. ACCIDENTAL RELEASE MEASURES

<i>Personal Precautions</i>	Exercise appropriate precautions to minimize direct contact with skin or eyes and to prevent inhalation of dust.
<i>Methods for Cleaning Up</i>	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.

7. HANDLING AND STORAGE

<i>Handling</i>	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
<i>Storage</i>	Suitable: Keep tightly closed.
<i>Special Requirements</i>	Hygroscopic

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

<i>Respiratory</i>	Wear dust mask
<i>Hand</i>	Protective gloves
<i>Eye</i>	Chemical safety goggles
<i>General Hygiene Measures</i>	Wash thoroughly after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Color	White
Form	Crystals

Safety Data

Molecular Weight:	142.04 amu	pH:	5.2 - 8 (20 °C Concentration: 50 g/l)
BP/BP Range:	N/A	MP/MP Range:	884 °C
Freezing Point:	N/A	Vapor Pressure:	N/A
Vapor Density:	N/A	Saturated Vapor Conc.:	N/A
SG/Density:	2.68 g/cm ³	Bulk Density:	1400 kg/l
Odor Threshold:	N/A	Volatile%:	N/A
VOC Content:	N/A	Water Content:	N/A
Solvent Content:	N/A	Evaporation Rate:	N/A
Viscosity:	N/A	Surface Tension:	N/A
Partition Coefficient:	N/A	Decomposition Temp:	N/A
Flash Point:	N/A	Explosion Limits:	N/A
Flammability:	N/A	Autoignition Temp:	N/A
Refractive Index:	N/A	Optical Rotation:	N/A
Solubility in Water	1 M in H ₂ O, 20 °C complete, colorless 162 g/L		

N/A = not available

10. STABILITY AND REACTIVITY

<i>Chemical Stability</i>	Stable
<i>Conditions to Avoid</i>	Protect from moisture
<i>Materials to Avoid</i>	Strong acids, aluminum, magnesium
<i>Hazardous Decomposition Products</i>	Sulfur oxides
<i>Hazardous Polymerization</i>	Will not occur

11. TOXICOLOGICAL INFORMATION

<i>Skin Contact</i>	May cause skin irritation
<i>Skin Absorption</i>	May be harmful if absorbed through the skin
<i>Eye Contact</i>	May cause eye irritation
<i>Inhalation</i>	May be harmful if inhaled; material may be irritating to mucous membranes and upper respiratory tract
<i>Ingestion</i>	May be harmful if swallowed
<i>Signs and Symptoms of Exposure</i>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

<i>Toxicity to Fish</i>	LC50 – <i>Gambusia affinis</i> (mosquito fish) – 120 mg/l – 96 h LC50 – <i>Lepomis macrochirus</i> – 4,380 mg/l – 96 h
<i>Toxicity to Daphnia and Other Aquatic Invertebrates</i>	EC50 – <i>Daphnia magna</i> (water flea) – 2,564 mg/l – 48 h
<i>Persistence and Degradability</i>	The methods for determining biodegradability are not applicable to inorganic substances.
<i>Bioaccumulative Potential</i>	No data available
<i>Mobility in Soil</i>	No data available
<i>PBT and vPvB Assessment</i>	PBT/vPvB assessment not available, as chemical assessment not required/not conducted

13. DISPOSAL CONSIDERATIONS

<i>Product</i>	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.
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14. TRANSPORT INFORMATION

DOT <i>Proper Shipping Name</i>	None. This substance is considered to be non-hazardous for transport.
IATA	Non-hazardous for air transport.
Contact ISOFLEX for other transportation information.	

15. REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimus) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	No SARA Hazards
Massachusetts Right to Know Components	Sodium Sulfate / CAS No. 7757-82-6 / Revision Date 1993-04-24
Pennsylvania Right to Know Components	Sodium Sulfate / CAS No. 7757-82-6 / Revision Date 1993-04-24
New Jersey Right to Know Components	Sodium Sulfate / CAS No. 7757-82-6 / Revision Date 1993-04-24
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause birth defects or any other reproductive harm.

16. OTHER INFORMATION

<i>Prepared By</i>	ISOFLEX USA PO Box 472615 San Francisco CA 94147 United States
<i>Issuing Date</i>	September 15, 2014
<i>Revision Date</i>	October 18, 2024
<i>Revision No.</i>	3
<i>Revision Note</i>	Update supplier address

ISOFLEX USA's Commonly Used Abbreviations and Acronyms*

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
ALARA	As Low As Is Reasonably Achievable
AMU	Atomic Mass Unit
ANSI	American National Standards Institute
BLS	Basic Life Support
CAM	Continuous Air Monitor
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CEN	European Committee for Standardization
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLP	Classification, Labelling and Packaging (European Union)
CPR	Controlled Products Regulations (Canada)
CWA	Clean Water Act (USA)
DAC	Derived Air Concentration (USA)
DOE	United States Department of Energy (USA)
DOT	United States Department of Transportation (USA)
DSL	Domestic Substances List (Canada)
EC50	Half Maximal Effective Concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
EHS	Environmentally Hazardous Substance
ELINCS	European List of Notified Chemical Substances
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (USA)
EPCRA	Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Containers
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life or Health
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LDLO	Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified

NRC	Nuclear Regulatory Commission (USA)
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent Bioaccumulative and Toxic Chemical
PEL	Permissible Exposure Limit
PIH	Poisonous by Inhalation Hazard
RCRA	Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act (USA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

*One or more of the above-listed items may not appear in this document.

General Disclaimer

For terms and conditions, including limitation of liability, please refer to the purchase agreement in effect between ISOFLEX USA (or any of its affiliates and subsidiaries) and the purchaser.

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