

Material Safety Data Sheet Sodium Sulfate

1. Product And Company Identification :

Product Name : Sodium sulfate
Other / Generic Name : Sodium sulfate anhydrous
CAS No. : 7757 - 82 - 6
Product use : Sodium sulfate has produced for many years in high volumes for use in detergents, glass and paper manufacture and a variety of smaller industrial uses
Supplier : Destiny Chemicals
 Plot No.: 135, GIDC Nandesari, Vadodara - 391 340.
 Gujarat, India.

5. Fire Fighting measures :

Suitable extinguishing media :
 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards :
 Not combustible
Specific methods :
 Ambient fire may liberate hazardous vapours. Fire may cause evolution of : Sulphur oxides
Special protective equipment for firefighters :
 In the event of fire, wear self-contained breathing apparatus
 Suppress (knock down) gases / vapours / mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground system.

2. Hazard Identification :

GHS classification :
 (Classification according to Regulation (EC) No. 1272/2008)
ACUTE TOXICITY (oral/dermal/inhalation) :
 LD50 (ort. Mouse) : 5989mg/kg (RTECS)
 LD50 (ivn. rabbit) : 1220mg/kg (RTECS)
Physical Hazards :
 Not classifiable
Health Hazards :
 Eye : May cause eye irritation.
Environmental Hazards :
 Skin : May cause skin irritation.
 Ingestion : Ingestion of large amounts may cause gastrointestinal irritation.
 Inhalation : May cause respiratory tract irritation.
EC classification :
 (Classification according to Directive 67/548/EEC)
 R36 (irritation to eyes)
Hazard pictograms :
 Xi - Irritant
Signal word :
 None listed

6. Accidental Release Measures:

Personal precaution, protective equipment and emergency procedures :
 Avoid inhalation of dusts.
Environmental precautions :
 Prevent product from entering drains.
Methods and materials for containment and cleaning up :
 Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

7. Handling & Storage :

Handling
Information for safe handling :
 Provide suction extractors if dust is formed.
 No special precautions are necessary if used correctly.
Information about fire - and explosion protection : No special measures required.
Storage :
Requirements to be met by storerooms and receptacles : No special requirements.
Information about storage in one common storage facility : Not required.
Recommended storage temperature : 15-25°C **storage class** : 10-13
 This product is hygroscopic.
 Keep container tightly sealed.
 Store in cool, dry conditions in well sealed containers.
 Protect from humidity and keep away from water.

3. Composition / Information On Ingredients :

Chemical formula : Na₂SO₄
Common Name : Sodium sulfate anhydrous
Synonyms : Sodium sulfate
 Sodium sulfate anhydrous
Molecular weight : 142.04
CAS No. : 7757-82-6
Index No. : EC INDEX NUMBER : Not listed
UN No. :
EINECS No. : 231-820-9

8. Exposure Control / Personal Protection :

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.
Personal Protective Equipment
Eyes :
 Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin :
 Wear appropriate gloves to prevent skin exposure.
Clothing : Wear appropriate protective clothing to prevent skin exposure.
Respirators : Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
Breathing equipment :
 Use breathing protection with high concentrations.

4. First Aid Measures :

General Advice : Wash off immediately with soap and plenty of water. In the case of respirable dust and / or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.
 Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.
Skin Contact : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use to help assure removal. If irritation persists, consult a physician.
Eye Contact : Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
Ingestion : Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

9. Physical And Chemical Properties :

Appearance : Solis / powder
Colour : white
Odour : odourless
pH (at 50 g/l) at 20 °C : 5.2 - 8.0
Boiling Point/range : not applicable, (decomposition)
Melting point : 888°C
Flash Point : not applicable
Ignition temperature : not applicable
Lower explosion limit : Product is not explosive.
Upper explosion limit : Product is not explosive.
Vapour Pressure : No data available
Relative vapour density : No data available
Density : 2.70 g/cm³ at 20°C
Solubility : soluble in Water 200 g/l at 20°C

10. Stability And Reactivity :

Conditions to avoid : Strong heating.
Materials to avoid : Risk of explosion with : Aluminium
Hazardous decomposition products in the event of fire : See chapter 5.
Thermal decomposition : > 890 °C
Further information : Hygroscopic

11. Toxicological Information :

Acute toxicity	: LD/C50 values that are relevant for classification : Oral Ld50 5989 mg/kg (mouse) Irritation of eyes mild unknown mg (rabbit) Symptoms : Possible damages : Nausea; Vomiting Skin irritation rabbit Result : No irritation Method : OECD Test Guideline 404 Primary irritant effect. On the skin : Causes mild irritant effect. On the eye : Sensitization : No sensitizing effect known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
RTECS#	: WE 1650000
Carcinogenicity	: Sodium sulfate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA See actual entry in RTECS for complete information.
Health Warnings	No date available
Target organs	No date available
Chronic exposure	

12 Ecological Information :

Acute fish toxicity	: Toxicity to fish Lc50 Species <i>Gambusia affinis</i> (Mosquito fish) Dose : 120 mg/l Exposure time : 96 h (IUCLID)
Acute toxicity aquatic invertebrates	: EC50 Species : <i>daphnia magna</i> (Water flea) Dose : 2.564 mg/l Exposure time : 48 h (IUCLID)
	Water hazard class 1 (Self-assessment) : slightly hazardous for water. Do not allow undiluted product or large quantities of to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

13 Disposal Considerations :

Product :	Chemicals must be disposed of in compliance with the respective national regulations.
Packaging :	Product packaging must be disposed of in compliance with the country - specific regulations or must be passed to a packaging return system.

14 Transport Information :

UN No. : **Hazard Class :** **Packing Group :**

Not classified as dangerous in the meaning of transport regulations.
Land transport ADR/RID and GGVS / GGVE (cross-border/domestic)
ADR/RTD-GGVS/E Class : None
Maritime transport IMDG / GGV Sea : None
IMDG / GGV Sea Class : No
Marine pollutant : No
Air transport ICAO - TI and IATA - DGR : None
ICAO / IATA Class : None
Transport / Additional information :
Not dangerous according to the above specifications.

15 Regulatory Information :

Safety information according to GHS

Hazard Statement (s)	Not a dangerous substance according to GHS.
Precautionary Statement (s)	Not a dangerous substance according to GHS.
Signal Word	Not a dangerous substance according to GHS.

Hazard Pictogram (s) :

RTECS#	No date available
GHS- Labeling	

Not a dangerous substance according to GHS.
Labeling according to EC Directives
The product does not need to be labeled in accordance with EC directives or respective
national laws. EC - No. 231 - 820 - 9

Hazard symbols	: X1 Irritant
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Risk Phrases	:
Safety phrases	: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye / face protection

WGK (Water Danger / Protection) CAS# 7757-82-6 : 0
Canada : Listed on DSL / NDSL.
Not listed on Ingredient Disclosure List.
US : Listed on the TSCA inventory.

16 Other Information :

DISCLAIMER : Destiny Chemicals Provides the information contained herein good faith
but makes no representation as to comprehensiveness or accuracy. This document is only
as a guide to a properly trained person, for the appropriate precautions and handling of the
material. Individuals receiving the information must exercise their independent judgement
in determining its appropriateness for a particular purpose. The data does not signify any
warranty with regard to the product's properties.

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