

SODIUM SULPHATE ANHYDROUS

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

SODIUM SULPHATE ANHYDROUS
Salt Cake; Sodium Sulfate; Glauber's Salt (anhydrous form); Na₂SO₄
CAS: 7757-82-6

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Detergent/soap filler, kraft pulp and paper (kraft process) manufacture, glass manufacture, textile dyeing (Glauber's salt use), starch/synthetic fibre processing. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), based on well-established public data for Sodium Sulphate Anhydrous (CAS 7757-82-6). Based on available data, this substance does not meet the criteria for classification as hazardous under GHS.
Not classified as hazardous.

2.2 GHS label elements, including precautionary statements:

GHS: No signal word required

Hazard statements:

None required under GHS classification criteria.

Precautionary statements:

P264: Wash exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear eye protection/face protection when handling dust.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container in accordance with local/regional/national regulations.

2.3 Other hazards which do not result in classification:

Non-hygroscopic in the anhydrous form under normal conditions; slowly hydrates to the decahydrate (Glauber's salt) in humid environments. Not a PBT/vPvB substance.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Sodium Sulphate Anhydrous
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 7757-82-6	Sodium Sulphate Anhydrous – Not classified	≥95% (technical/commercial grade)

Exact assay confirmed on the product Certificate of Analysis. To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable (technical/commercial-grade single substance with minor process residuals)

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance if symptoms are severe or persist, showing the SDS of this product.

By inhalation:

Dust may cause mechanical irritation to the respiratory tract. Remove person to fresh air.

By skin contact:

Brush off excess solid. Wash skin with plenty of water.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes, holding eyelids open. Seek medical attention if irritation persists.

By ingestion/aspiration:

Rinse mouth. Give water to drink if the person is conscious. Seek medical attention if discomfort occurs.

4.2 Most important symptoms/effects, acute and delayed:

Mechanical/nuisance-dust irritation of eyes and respiratory tract is the principal effect expected from dust exposure. No specific systemic effects anticipated at normal occupational exposure levels.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Treat symptomatically. No specific antidote required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:
Suitable: Use extinguishing media appropriate to the surrounding fire (water spray, foam, dry chemical, CO₂).
Unsuitable: None known.

5.2 Specific hazards arising from the chemical:
Non-combustible, non-flammable. Not classified as an oxidiser. No unusual fire or explosion hazard.

5.3 Special protective actions for fire-fighters:
No special measures required beyond standard fire-fighting practice. Wear self-contained breathing apparatus in enclosed or poorly ventilated areas.

Additional provisions:
Cool fire-exposed containers with water spray if safe to do so.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:
For non-emergency personnel:
Avoid dust generation. Use PPE described in section 8.
For emergency responders:
Wear appropriate protective equipment (see section 8).
6.2 Environmental precautions:
Avoid large releases to soil, drains or watercourses. Contain if possible.
6.3 Methods and materials for containment and cleaning up:
Sweep up or vacuum dry material and place in a suitable, labelled container for reuse or disposal. Avoid generating dust.
6.4 Reference to other sections:
See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:
A. General precautions for safe use:
Avoid contact with eyes. Avoid generating and inhaling dust. Use with adequate ventilation.
B. Technical recommendations for the prevention of fires and explosions:
Non-combustible; no specific fire/explosion prevention measures required beyond general good practice.
C. Technical recommendations on general occupational hygiene:
Do not eat, drink or smoke while handling. Wash hands thoroughly after handling.
D. Technical recommendations to prevent environmental risks:
Prevent uncontrolled discharge to drains or watercourses.
7.2 Conditions for safe storage, including any incompatibilities:
A. Specific storage requirements:

Storage condition	Store in tightly closed containers/bags in a cool, dry, well-ventilated place
Incompatible materials	Strong oxidising agents, aluminium powder, barium salts

B. General conditions for storage:
Keep dry to prevent caking/clumping. Store away from incompatible materials listed above.

7.3 Specific end use(s):
Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Identification	Occupational Exposure Limit Type	Value
Sodium Sulphate Anhydrous CAS: 7757-82-6	No substance-specific OEL established (treat as particulate not otherwise classified)	General inert-dust limit: 10 mg/m ³ (total dust) / 3 mg/m ³ (respirable)

8.2 Appropriate engineering controls:
Provide local exhaust ventilation where dust is generated to keep airborne concentrations below occupational exposure limits.

B. Respiratory protection:
Not normally required with adequate ventilation; use a particulate filter respirator (FFP2 type) if dust levels are elevated.

C. Specific protection for the hands:
Chemical-resistant gloves recommended for prolonged or repeated contact.

D. Eye and face protection:
Safety glasses with side shields or chemical goggles when handling dust.

E. Bodily protection:
Standard industrial work clothing.

F. Additional emergency measures:
Eyewash station and washing facilities should be available in the work area.

Environmental exposure controls:
Prevent uncontrolled discharge to the environment; see subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Solid
Appearance	White crystalline powder
Odor	Odorless
Odour threshold	Not applicable
Volatility	
Boiling point	Not applicable (solid, decomposes/melts as below)
Melting point	884°C

Vapour pressure	Negligible
Evaporation rate	Not applicable (solid)
Product Description	
Molecular weight	142.04 g/mol
Density	2.66 g/cm³
pH (aqueous solution)	6.0–9.0 (neutral to mildly alkaline, 5% solution)
Solubility in water at 20°C	~19.5 g/100 mL at 20°C (solubility increases sharply near 32.4°C, the transition point to the decahydrate)
Flammability	
Flash Point	Non-applicable (non-combustible solid)
Flammability (solid, gas)	Not flammable
Autoignition temperature	Not applicable
Lower / Upper flammability limit	Not applicable

9.2 Other information:

Explosive properties	Not applicable
Oxidising properties	Not classified as an oxidiser
Corrosive to metals	Not classified

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactivity expected under normal conditions of storage, handling and use.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Hazardous polymerisation does not occur. Under specified conditions, hazardous reactions leading to excessive temperature or pressure are not expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Keep dry – caking/clumping

10.5 Incompatible materials:

Strong oxidising agents, aluminium powder, barium salts

10.6 Hazardous decomposition products:

None expected under normal conditions of storage and use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:

A. Ingestion (acute effect):

Low acute oral toxicity. Large doses may cause gastrointestinal discomfort.

B. Inhalation (acute effect):

Dust may cause mechanical irritation of the nose, throat and respiratory tract.

C. Contact with skin and eyes (acute effect):

Skin: not expected to be irritating under normal handling. Eyes: dust may cause mechanical irritation.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Not listed as a carcinogen by IARC, NTP or OSHA. Classification criteria for mutagenicity/reproductive toxicity are not met based on available data.

E. Sensitizing effects:

Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:

Classification criteria are not met based on available data.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Not applicable (solid).

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Sodium Sulphate Anhydrous CAS: 7757-82-6	LD50 oral: >5000 mg/kg (practically non-toxic)	Rat

SECTION 12: ECOLOGICAL INFORMATION

Very low aquatic toxicity; sodium and sulphate are common, naturally occurring ions in fresh and marine waters.

12.1 Toxicity:

Low order of aquatic toxicity as the intact inorganic salt; large discharges may alter local ionic strength/salinity.

12.2 Persistence and degradability:

Inorganic salt; biodegradation is not applicable.

12.3 Bioaccumulative potential:

Not expected to bioaccumulate.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not applicable	Not applicable	Mobility depends on water solubility (see section 9)	

12.5 Results of PBT and vPvB assessment:

Not applicable (inorganic substance).

12.6 Other adverse effects:

None expected under normal use.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Not classified as hazardous waste. Dissolve/dilute and dispose of in accordance with local discharge consent, or dispose of via a licensed waste contractor.
Refer to national and local regulations on waste management.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR/RID):

14.1 UN number	Not regulated
14.2 UN proper shipping name	Sodium Sulphate Anhydrous – non-hazardous for transport
14.3 Transport hazard class(es)	N/A
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	None
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

Transport of dangerous goods by sea (IMDG):

14.1 UN number	Not regulated
14.2 UN proper shipping name	Sodium Sulphate Anhydrous – non-hazardous for transport
14.3 Transport hazard class(es)	N/A
14.4 Packing group	N/A
14.5 Marine pollutant	No
14.6 Special precautions for user	None
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

Transport of dangerous goods by air (IATA/ICAO):

14.1 UN number	Not regulated
14.2 UN proper shipping name	Sodium Sulphate Anhydrous – non-hazardous for transport
14.3 Transport hazard class(es)	N/A
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	None
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information in this SDS as data for a local risk evaluation for handling, use, storage and disposal.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

None (not classified as hazardous under GHS).

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Publicly available GHS classification and physicochemical reference data for Sodium Sulphate Anhydrous (CAS 7757-82-6).

Abbreviations and acronyms:

LD50: Lethal Dose 50 | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer | PBT: Persistent, Bioaccumulative and Toxic | vPvB: Very Persistent and Very Bioaccumulative

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET