

SODIUM SULPHITE

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

SODIUM SULPHITE
Disodium sulfite; Sodium sulfite anhydrous
CAS: 7757-83-7

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Oxygen scavenger in boiler feed water treatment, photographic developer component, textile dyeing/bleaching auxiliary (antichlor), pulp and paper processing, food preservative (E221, permitted grades only).
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).

Skin Irrit. 2	Skin irritation, Category 2, H315
Eye Irrit. 2	Eye irritation, Category 2, H319

2.2 GHS label elements, including precautionary statements:

GHS: Warning
Hazard statements:
Skin Irrit. 2: H315 – Causes skin irritation.
Eye Irrit. 2: H319 – Causes serious eye irritation.

Precautionary statements:

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/eye protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs, get medical advice/attention.
P501: Dispose of contents/container in accordance with local/national regulations.

2.3 Other hazards which do not result in classification:

Slowly oxidises to sodium sulfate on prolonged exposure to air/moisture. Not classified as PBT or vPvB.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: SODIUM SULPHITE
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 7757-83-7	SODIUM SULPHITE — Skin Irrit. 2: H315; Eye Irrit. 2: H319 – Warning	≥ 98% (technical/industrial grade; grade-specific assay available on request)

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure to fresh air and keep at rest. If dust has been inhaled and irritation or breathing difficulty persists, seek medical attention.

By skin contact:

Remove contaminated clothing and footwear. Wash affected skin thoroughly with plenty of water and soap. If irritation develops or persists, seek medical attention.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

By ingestion/aspiration:

Rinse mouth with water. Do NOT induce vomiting. If conscious, give plenty of water to drink. Seek medical attention immediately, especially if large quantities were ingested.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant – treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Water spray, foam, dry chemical powder, carbon dioxide – product itself is non-combustible.
Unsuitable: None known.

5.2 Specific hazards arising from the chemical:

Non-combustible. On strong heating decomposes, evolving toxic sulfur oxide (SOx) fumes. Reducing agent – may react with strong oxidisers.

5.3 Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and full protective clothing in the event of a significant fire, due to possible SOx fume evolution.

Additional provisions:

If safe to do so, remove exposed containers from the fire area. Use water spray to cool fire-exposed containers/structures. Avoid generating and inhaling dust.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Avoid raising and inhaling dust. Use personal protective equipment as described in Section 8. Evacuate the area and keep unprotected persons away.

For emergency responders:

Wear appropriate protective equipment as described in Section 8. Ensure adequate ventilation.

6.2 Environmental precautions:

Prevent large quantities from entering drains or watercourses – exerts an oxygen demand (COD) on receiving water.

6.3 Methods and materials for containment and cleaning up:

Sweep up or vacuum spilled material (avoid generating dust) and place in a suitable closed, labelled container for recovery or disposal. Wash the spill area with water after solid material has been removed.

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 generating and breathing dust. Avoid contact with strong acids and strong oxidisers. Keep away from incompatible materials (see section 10).

B. Technical recommendations for the prevention of fires and explosions:

Product is non-combustible; keep away from strong oxidising agents to prevent exothermic reaction.

C. Technical recommendations on general occupational hygiene:

Do not eat, drink or smoke during handling. Wash hands and exposed skin thoroughly after handling and before breaks/meals.

D. Technical recommendations to prevent environmental risks:

Avoid release to the environment. Follow the protective measures given in Section 8. For bulk storage/handling, consult Suraj Chemicals.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	Ambient (no minimum requirement)
Maximum Temp.	30°C
Maximum time	24 Months in original, unopened packaging

B. General conditions for storage:

Store in a cool, dry, well-ventilated place in tightly closed containers, away from acids and oxidisers. Protect from moisture – product oxidises slowly to sulfate on prolonged air exposure.

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:

No specific occupational exposure limit has been established for this substance under Indian/OSHA/ACGIH lists. Apply the general dust exposure limit for particulates not otherwise classified/regulated (PNOC/PNOR): 10 mg/m³ (inhalable), 3-5 mg/m³ (respirable), TWA 8h, as a good-practice guideline.

8.2 Appropriate engineering controls:

Use local exhaust ventilation or general dilution ventilation to keep airborne concentrations below occupational exposure limits. Consult the manufacturer's information leaflet for storage, use, cleaning and maintenance of PPE.

B. Respiratory protection:

Not normally required under good ventilation. If dust levels exceed exposure limits, use a filtering half-mask respirator (type P1/P2 or FFP2).

C. Specific protection for the hands:

Chemical-resistant gloves (nitrile or PVC).

D. Eye and face protection:

Safety glasses with side shields or chemical splash goggles.

E. Bodily protection:

Standard work clothing; dust-resistant overalls for prolonged handling.

F. Additional emergency measures:

Emergency eyewash station and safety shower should be available in the immediate work area (ANSI Z358-1 / ISO 3864 or equivalent).

Environmental exposure controls:

Avoid environmental spillage of both the product and its container. 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 (crystalline powder)
Appearance	White crystalline powder
Color	White
Odor	Odorless (faint sulfurous odor possible on decomposition)

Odour threshold	Not established
Melting point/freezing point	Decomposes on strong heating (>500°C); no distinct melting point (anhydrous)
Boiling point at atmospheric pressure	Not relevant *
Density / Relative density at 20°C	2.63 g/cm³
Bulk density	1200 – 1400 kg/m³ (typical)
Solubility in water at 20°C	280 g/L
pH (5% aqueous solution)	8.5 – 9.5
Vapour pressure at 20°C	Not relevant *
Partition coefficient n-octanol/water	Not relevant (inorganic salt)
Decomposition temperature	>500°C
Flammability	
Flash Point	Non-applicable (non-combustible solid)
Flammability (solid, gas)	Not classified as flammable
Autoignition temperature	Not relevant *
Lower / Upper flammability limit	Not relevant *
Particle Characteristics	
Median particle size	Available on request (grade/mesh-size dependent)

* Not relevant due to the nature of the product, not providing information on the properties of its hazards.

9.2 Other information:

Explosive properties	Not explosive
Oxidising properties	Not oxidising – product is a reducing agent
Corrosive to metals	Not relevant *
Heat of combustion	Not relevant *
Surface tension at 20°C	Not relevant *
Refraction index	Not relevant *

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**
Acts as a reducing agent. May react with strong oxidising agents, generating heat. Slowly oxidised by air to sodium sulfate.
- 10.2 Chemical stability:**
Chemically stable under the indicated conditions of storage, handling and use.
- 10.3 Possibility of hazardous reactions:**
Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
- 10.4 Conditions to avoid:**

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Avoid excessive heat	Not applicable	Avoid contact with moisture (may cake/hydrolyse)

10.5 Incompatible materials:

Incompatible with	Reason/Effect
Strong oxidising agents	Exothermic reaction; risk of fire
Strong acids	Liberates sulfur dioxide gas

- 10.6 Hazardous decomposition products:**
No hazardous decomposition products 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):**
May cause gastrointestinal irritation, nausea and vomiting if ingested in quantity.
- B. Inhalation (acute effect):**
Dust may cause irritation of the nose, throat and respiratory tract.
- C. Contact with skin and eyes (acute effect):**
Causes skin irritation (H315) and serious eye irritation (H319).
- D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):**
Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available data. IARC: Not listed.
- 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, except as noted in Section 2.
- G. Specific target organ toxicity (STOT) – repeated exposure:**
Classification criteria are not met based on available data.
- H. Aspiration hazard:**
Classification criteria are not met based on available data (not a liquid hydrocarbon).

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
SODIUM SULPHITE CAS: 7757-83-7	LD50 oral: 820 mg/kg	Rat
	LD50 dermal: >2000 mg/kg	Rabbit
	LC50 inhalation: Not established	–

SECTION 12: ECOLOGICAL INFORMATION

Exerts an oxygen demand on aquatic systems (reducing agent); low acute toxicity otherwise expected.

12.1 Toxicity:

Identification	Acute Toxicity	Species	Genus
Sodium sulphite CAS: 7757-83-7	LC50: 1315 mg/L (96h)	Fish (e.g. Leuciscus idus)	Fish
	EC50: >100 mg/L (48h)	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Not readily biodegradable in the organic sense (inorganic substance); not applicable/not relevant.

12.3 Bioaccumulative potential:

Not expected to bioaccumulate (low log Pow / inorganic ionic species).

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not relevant	Not relevant	Soluble in water – may leach in soil	Soluble in water – may leach in soil

12.5 Results of PBT and vPvB assessment:

Non-applicable – this substance is not organic and does not meet PBT/vPvB screening criteria (inorganic salt/mineral).

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Small quantities may be dissolved in large volumes of water and neutralised/oxidised before disposal via a permitted wastewater treatment facility, subject to local discharge consent. Larger quantities/residues should be collected and disposed of via a licensed waste contractor.
Do not discharge to drains, soil or surface water. Dispose of via a licensed hazardous/industrial waste contractor in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (India) and other applicable national/local regulations. Empty containers may retain product residue – handle empty containers with the same precautions as full ones.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-Dangerous Goods for transport under ADR/RID, IMDG and IATA/ICAO
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-Dangerous Goods for transport under ADR/RID, IMDG and IATA/ICAO
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Marine pollutant	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-Dangerous Goods for transport under ADR/RID, IMDG and IATA/ICAO
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

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

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

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)
The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996
Public Liability Insurance Act, 1991
Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

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:

Not applicable – no hazard statements apply to this product.

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:

The United Nations Economic Commission for Europe (UNECE); European Chemicals Agency (ECHA) classification and labelling inventory; publicly available chemical safety literature for this substance.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | COD: Chemical Oxygen Demand | BOD5: 5-day biochemical oxygen demand | BCF: Bioconcentration factor | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | Log-POW: Octanol-water partition coefficient | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer

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