

# SODIUM SULPHATE

## Safety Data Sheet

Supersedes: 19/04/2023

Revision: 1.3

Revision date: 12/12/2023

### SECTION 1: Identification

#### 1.1 Identification

Product form	:	Substance
Substance name	:	Sodium Sulphate
CAS No	:	7757-82-6
EC/ List No	:	231-820-9
Formula	:	Na <sub>2</sub> SO <sub>4</sub>
Molecular weight	:	142.04 g/mol
Synonyms	:	Disodium sulphate

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	:	Laboratory chemicals, Manufacture of substances
Relevant identified uses	:	Paper chemicals and dyes, textile treatment products and dyes and leather treatment products, washing & cleaning products, plant protection products and cosmetics and personal care products.
Uses advised against:	:	Not known

#### 1.3 Details of the supplier of the safety data sheet

Godavari Biorefineries Ltd.  
45/47, Somaiya bhavan,  
Mahatma Gandhi Road,  
Fort, Mumbai -400001, INDIA.  
T 0091 22 22048272  
Email: [alka@somaiya.com](mailto:alka@somaiya.com)  
[www.somaiya.com](http://www.somaiya.com)

#### 1.4 Emergency telephone Number

Emergency number	:	0091 2423 279308 0091 22 22048272 (Monday – Friday - 09.30 hrs to 18.00 hrs)
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### SECTION 2: Hazard(s) identification

#### GHS classification

##### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not classified in GHS-US.

##### 2.2 GHS labeling

Hazard pictograms (GHS)	:	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Signal word (GHS)	:	None
Supplemental Hazard information:	:	None

##### 2.3 Other hazards

Not known.

##### 2.4 Unknown acute toxicity (GHS US)

Not applicable.

### SECTION 3: Composition/Information on ingredients

#### 3.1 Substance

Name	Product Identifier CAS No. EC No.	Concentration %	GHS Classification
Sodium Sulphate	7757-82-62 231-820-9	Minimum 99	Not classified in GHS-US.

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Full text of hazard classes and H-statements : see section 16

### 3.2 Mixture

Not applicable.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

- |              |   |  |
|--------------|---|--|
| Inhalation   | : | Keep at rest. Aerate with fresh air  |
| Skin contact | : | Wash off immediately with plenty of water and soap.  |
| Eye contact  | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Medical attention is required. |
| Ingestion    | : | Wash mouth out with water. Drink water to dilute, get medical aid in case of ingestion of large amounts  |

### 4.2 Most important symptoms and effects, both acute and delayed

Nausea, Vomiting, cardiovascular disorders. Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                |   |  |
|--------------------------------|---|--|
| Suitable extinguishing media   | : | Foam. Dry powder. Carbon dioxide. Water spray. Sand.                         |
| Unsuitable extinguishing media | : | For this substance/mixture no limitations of extinguishing agents are given. |

### 5.2 Special hazards arising from the substance or mixture

- |                               |   |  |
|-------------------------------|---|--|
| Hazardous combustion products | : | Not combustible<br>Ambient fire may liberate hazardous vapours. Fire may cause evolution of sulphur oxides |
|-------------------------------|---|--|

### 5.3 Advice for firefighters

- |                           |   |   |
|---------------------------|---|---|
| Firefighting instructions | : | Special protective equipment for fire fighters In the event of fire, wear self-contained breathing apparatus. |
|---------------------------|---|---|

### 5.4 Additional information

No data available.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For personal protection see section 8. Indications about waste treatment see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Precautions for safe handling : Observe label precautions.  
Hygiene measures Change contaminated clothing. Wash hands after working with substance.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

8.2.1 Appropriate engineering controls : Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Personal protective equipment :



Protective goggles. Gloves. Protective clothing. Face shield. Gas mask with filter.

General Advice : Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection : safety goggles.

Skin protection: : full contact:

Hand protection

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	480 min
plash contact:	
Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	480 min

Respiratory protection : Required when dusts are generated.  
Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances  
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls : Do not let product enter drains.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state & Appearance	: Solid
Colour	: White
Odour	: None
pH	: 5.2 – 8.0 at 20°C
Melting point	: 888 °C
Freezing point	: No Data Available
Initial boiling point/boiling range	: 116 - 118 °C
Flash Point	: No Data Available
Relative evaporation rate	: No Data Available
Relative density	: No Data Available
Relative vapour density at 20°C	: No Data Available
Specific gravity/ density	: 2.70 g/cm <sup>3</sup> at 20 °C
Molecular mass	: 142.04 g/mol
Flammability(Solid, Gas)	: No data available
Upper/lower flammability or Explosive limit	: No Data Available
Solubility	: Soluble
Vapor pressure	: < =0.35 hPa at 20°C
Vapour density	: 2.56 at 20 °C - (Air = 1.0)
Evaporation Rate	: No Data Available
Partition coefficient n-octanol/water	: Log Pow1.0 at 20°C
Auto-ignition temperature	: > 400 °C Method: NF T 20-036 does not ignite
Decomposition temperature	: No Data Available.
Viscosity	: No Data Available.
Explosive Limits	: No Data Available.
Oxidizing properties	: No Data Available.

#### 9.2 Other information

Ignition temperature	: Not applicable
Bulk density	: 1400 kg/m <sup>3</sup> – 1600 kg/m <sup>3</sup>

### SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Risk of explosion with: smelt with aluminum
<b>10.2 Chemical Stability</b>	: Stable under recommended storage conditions
<b>10.3 Possibility of hazardous reactions</b>	: Presents no significant reactivity hazard, by itself or in contact with water
<b>10.4 Conditions to avoid</b>	: Conditions to avoid: Exposure to air or moisture over prolonged periods.
<b>10.5 Incompatible materials</b>	: Strong oxidizing agents, strong acids, aluminium, magnesium.
<b>10.6 Hazardous decomposition products</b>	: Oxides of sulphur, sodium oxide

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute oral toxicity LD50	:	Species: Rat Value: >2000 mg/kg bw OECD Test Guideline 423 Symptoms: Possible damages: Nausea, Vomiting
<b>Acute dermal toxicity LD50</b>	:	No data available
Skin corrosion/irritation	:	Rabbit Result: No skin irritation OECD Test Guideline 404
Serious eye damage/irritation	:	Rabbit Result: Slight irritation OECD Test Guideline 405
Respiratory or skin sensitization	:	Species: Mouse Classification: non-sensitizing
Germ cell mutagenicity	:	<i>Genotoxicity in vitro</i> Ames test Salmonella typhimurium Result: negative
Carcinogenicity	:	No data available
Teratogenicity	:	No data available
Reproductive toxicity	:	No data available
Aspiration hazard	:	No data available
Signs and Symptoms of Exposure	:	No data available
Synergistic effects	:	No data available
<b>11.2 Further information</b>	:	Systemic effects: After uptake of large quantities: cardiovascular disorders Symptoms in: Gastrointestinal tract However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 12: Ecological information

#### 12.1 Toxicity

<b>Toxicity to Fish LC50</b>	:	LC50 (Pimephales promelas) - 7960 mg/L
<b>Toxicity to aquatic invertebrates EC50</b>	:	Daphnia magna (Water flea): 1766 mg/L

#### 12.2 Persistence and degradability

Biodegradability.  
The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3 Bio accumulative potential

Not Data available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No Applicable for inorganic Substance

#### 12.6 Other adverse effects

Additional ecological information  
Discharge into the environment must be avoided.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Product disposal** : Disposal should be in accordance with all applicable regional & national laws and regulations. Method of disposal for this product is by secured land filling at a site of a licensed professional waste disposal service.

### SECTION 14: Transport Information

**D.O.T.** : Not classified as dangerous in the meaning of transport regulations.

**Marine transport (IMDG)** : Not classified as dangerous in the meaning of transport regulations.

**Air transport ICAO/IATA** : Not classified as dangerous in the meaning of transport regulations.

### SECTION 15: Regulatory information

#### 15.1 National regulations

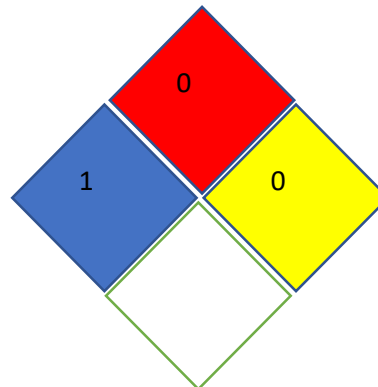
Country	National Inventories	Listing
AUSTRALIA	AICS	Listed
CANADA	DSL	Listed
CHINA	IECSC	Listed
EUROPE	EC	Listed
JAPAN	ENCS	Listed
NEWZEALAND	NZIoC	Listed
PHILIPPINES	PICCS	Listed
SOUTH KOREA	KECI	Listed
TAIWAN	TCSI	Listed
USA	TSCA	Listed

### SECTION 16: Other information

#### 16.1 Hazard Statement

No Data available.

#### 16.2 NFPA Rating



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### 16.3 Abbreviations and acronyms

:

PBT =Persistent Bioaccumulative and Toxic  
vPvB= Very Persistent and Very Bioaccumulative  
SCBA= Self Contained Breathing Apparatus  
NIOSH REL= National Institute for Occupational Safety and Health  
Recommended Exposure Limit  
UEL= Upper Explosive Limit  
LEL= Lower Explosive Limit  
IARC= International Agency for Research on Cancer  
EPA=Environmental Protection Agency  
TSCA= Toxic Substances Control Act  
NFPA= National Fire Protection Association  
TLV = Threshold Limit Value  
ACGIH = American Conference of Governmental Industrial Hygienist  
REACH = Registration, Evaluation .Authorisation and Restriction of Chemicals  
CLP = Classification, Labelling and Packaging  
LD / LC = Lethal Doses / Lethal Concentration  
GHS = Globally Harmonised System  
ADR = Accord europeen relative au transport international de marchandises  
IMDG-Code = International Maritime Code for Dangerous Goods  
EmS = Emergency measures on Sea  
ICAO = International Civil Aviation Organization  
IATA/DGR= International Air Transport Association/Dangerous Goods  
Regulation

### 16.4 Further information:

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