



Version: 1.0

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# **Safety Data Sheet**

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifier** Trade name/designation: Sodium Sulphate, Anhydrous AR, ACS Product No.: S0443 Synonymes: Glauber's salt CAS No. 7757-82-6 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: General chemical reagent 1.3 Details of the supplier of the safety data sheet Supplier Avantor Performance Materials India Ltd. Street 501, 5th floor, Tiffany Building, Hiranandani Business Park, Thane, Maharashtra - 400607, India Postal code/city Telephone 022-41288100 **Emergency phone number** Telephone 1800105561 **Preparation Information Product Information Compliance** 1.4 E-mail SDS@avantorsciences.com

# SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

The substance is classified as not hazardous.

#### 2.2 Label elements

The product does not have to be labelled.

#### 2.3 Other hazards not applicable



#### **SECTION 3: Composition / information on ingredients**

#### Substances

Substance name	Sodium sulphate
Molecular formula	Na <sub>2</sub> SO <sub>4</sub>
Molecular weight	142.04 g/mol
CAS No.	7757-82-6

#### **SECTION 4: First aid measures**

#### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

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

no data available

#### **4.3 Indication of any immediate medical attention and special treatment needed** no data available

#### no data available

#### **SECTION 5: Firefighting measures**

#### 5 1 Extinguishing media

Suitable extinguishing media The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# Extinguishing media which must not be used for safety reasons no restriction

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

In case of fire may be liberated: Sulphur oxides



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#### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. Special protective equipment for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. In case of fire: Evacuate area.

#### **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Avoid dust formation.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

Clear spills immediately.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Avoid:

Inhalation

Avoid contact with eyes and skin.

Use extractor hood (laboratory).

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protect from moisture.

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

Recommended storage temperature: Keep bottles tightly closed and away from sources of ignition and heat.

Keep container tightly closed and in a well-ventilated place.

#### Specific end use(s)

no data available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.



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#### 8.2 Exposure controls

Appropriate engineering controls no data available

Personal protection equipment no data available

Eye/face protection no data available

Skin protection no data available

By short-term hand contact Suitable material: Thickness of the glove material: Breakthrough time (maximum wearing time):

NBR (Nitrile rubber) 0,12 mm > 480 min

By long-term hand contact Suitable material: Thickness of the glove material: Breakthrough time (maximum wearing time):

NBR (Nitrile rubber) 0,38 mm > 480 min

Respiratory protection no data available

Additional information no data available

*Environmental exposure controls* no data available



### **SECTION 9: Physical and chemical properties**

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

(a) Appearance	
Physical state:	solid
Colour:	white
(b) Odour:	no data available
(c) Odour threshold:	no data available

#### Safety relevant basic data

(d) pH:	5-8 (50 g/l; H2O; 20 °C)		
(e) Melting point/freezing point:	888 °C		
(f) Initial boiling point and boiling range:	1429 °C (1013 hPa)		
(g) Flash point:	no data available		
(h) Evaporation rate:	no data available		
(i) Flammability (solid, gas):	not applicable		
(j) Flammability or explosive limits			
Lower explosion limit:	no data available		
Upper explosion limit:	no data available		
(k) Vapour pressure:	no data available		
(I) Vapour density:	no data available		
(m) Relative density:	2.7 g/cm <sup>3</sup> (20 °C)		
(n) Solubility(ies)			
Water solubility (g/L):	~200 g/l (20 °C)		
Soluble (g/L) in Ethanol:	no data available		
(o) Partition coefficient: n-octanol/water:	no data available		
(p) Auto-ignition temperature:	no data available		
(q) Decomposition temperature:	no data available		
(r) Viscosity			
Kinematic viscosity:	no data available		
Dynamic viscosity:	no data available		
(s) Explosive properties:	not applicable		
(t) Oxidising properties:	not applicable		

#### 9.2 Other information

Bulk density:	no data available
Refraction index:	no data available
Dissociation constant:	no data available
Surface tension:	no data available
Henry's Law Constant:	no data available

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

no data available

#### **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).



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#### 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

no data available

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

no data available

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute effects

Acute oral toxicity: LD50: < 10000 mg/kg - Rat - (CHP)

Acute dermal toxicity: no data available

Acute inhalation toxicity: no data available

#### Irritant and corrosive effects

Primary irritation to the skin: not applicable

Irritation to eyes: not applicable

Irritation to respiratory tract: not applicable

#### Respiratory or skin sensitisation

In case of skin contact: not sensitising After inhalation: not sensitising

STOT-single exposure not applicable

STOT-repeated exposure not applicable

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity

#### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

No indications of human reproductive toxicity exist.





Aspiration hazard not applicable

Other adverse effects no data available

#### **SECTION 12: Ecological information**

#### 12.1 Ecotoxicity

#### Fish toxicity:

LC50: 4530 mg/l (96 h) - Hughes, J.S. 1973. Acute Toxicity of Thirty Chemicals to Striped Bass (Morone saxatilis). La.Dep.Wildl.Fish.318-343-2417 :15 p.(Used 963 As Reference)

#### Daphnia toxicity:

LC50: 3080 mg/l (48 h) - Mount, D.R., D.D. Gulley, J.R. Hockett, T.D. Garrison, and J.M. Evans 1997. Statistical Models to Predict the Toxicity of Major Ions to Ceriodaphnia dubia, Daphnia magna and Pimephales promelas (Fathead Minnows). Environ.Toxicol.Chem. 16(10):2009-2019

EC50: 3150 mg/l (48 h) - Warne, M.S.J., and A.D. Schifko 1999. Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. Ecotoxicol.Environ.Saf. 44(2):196-206

Algae toxicity: no data available

Bacteria toxicity: no data available

12.2 Persistence and degradability

no data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

#### 12.4 Mobility in soil:

no data available

12.5 Results of PBT/vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available



### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Appropriate disposal / Product

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.

#### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

#### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.



### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **SECTION 16: Other information**

#### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe) CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures DFG - German Research Foundation (Deutsche Forschungsgemeinschaft) Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung) IATA-DGR - International Air Transport Association-Dangerous Goods Regulations ICAO-TI - International Civil Aviation Organization-Technical Instructions IMDG - International Maritime Code for Dangerous Goods LTV - Long Term Value NIOSH - National Institute for Occupational Safety and Health OSHA - Occupational Safety & Health Administration PBT - Persistent, Bioaccumulative and Toxic RID - Regulation concerning the International Carriage of Dangerous Goods by Rail STV - Short Term Value SVHC - Substances of Very High Concern

vPvB - very Persistent, very Bioaccumulative

Additional information	
Indication of changes:	none

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