

SAFETY DATA SHEET

Sodium sulphite, anhydrous

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 01.12.2016

1.1. Product identifier

Product name Sodium sulphite, anhydrous
REACH Reg. No. 01-2119537420-49-XXXX
CAS no. 7757-83-7
EC no. 231-821-4
Formula Na₂SO₃

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

Use of the substance/preparation Laboratory chemical. For professional use only

1.3. Details of the supplier of the safety data sheet

Distributor

Company name Acinor AS
Office address Titangt. 13, NO-1630 Gamle Fredrikstad
Postal address Titangaten 13
Postcode 1630
City Gamle Fredrikstad
Country Norway
Tel 69384082
Fax 69384084
E-mail post@acinor.no
Website http://www.acinor.no
Enterprise no. NO 984 648 324 MVA
Contact person Rolf Egil de Flon

1.4. Emergency telephone number

Emergency telephone Giftinformasjonen:22 59 13 00

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification notes CLP Classification according to (EC) No.1272/2008: Not classified.

2.2. Label elements

Other Label Information (CLP) NOT CLASSIFIED according to health-, fire- and environmental hazard.

2.3. Other hazards

PBT / vPvB PBT/vPvB assessment has not been performed.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents
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Sodium sulphite

CAS no.: 7757-83-7

~ 100 %

EC no.: 231-821-4

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4.
Inhalation	Remove victim immediately from source of exposure. Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention if any discomfort continues.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 10 minutes. Remove contact lenses and open eyes wide apart. Remove particles remaining under the eyelids. Contact physician if discomfort continues.
Ingestion	Rinse mouth. Drink a few glasses of water or milk. Do not induce vomiting. Seek medical attention.

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

Acute symptoms and effects	Inhalation: May cause mild irritation. Dust may cause irritation symptoms such as coughing and a sore throat. May cause asthma-like respiratory difficulty. Skin contact: May cause mild irritation. Eye contact: May cause mild irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Other Information	Treat symptomatically. No specific information from the manufacturer.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is non-combustible.
Hazardous combustion products	May include, but is not limited to: Sulphurous gases (SO _x).

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other Information	Containers close to fire should be removed immediately or cooled with water. Extinguishing water must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Provide adequate ventilation. Use protective equipment as referred to in section 8. Avoid dust formation. Avoid inhalation of dust. Avoid contact with skin and eyes.
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6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Collect with vacuum cleaner or carefully sweep together and collect. Avoid formation of dust. Collect in suitable containers and deliver as waste according to section 13.
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6.4. Reference to other sections

Other instructions See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Use work methods which minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Use protective equipment as referred to in section 8.
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Protective Safety Measures

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed container. Store dry in a well-ventilated place.
Conditions To Avoid	Do not store near heat sources or expose to high temperatures. Moisture.

Conditions for safe storage

Advice on storage compatability	Keep away from: Acids. Sodium nitrate and Sodium nitrite Oxidizing agents. Keep away from food and drink.
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7.3. Specific end use(s)

Specific use(s)	See section 1.2.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Total inhalable dust		8-hour TWA: 10 mg/m ³	

Respirable dust		8-hour TWA: 4 mg/m ³	
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Other Information about threshold limit values	References (laws/regulations): Norwegian regulation on exposure limits: "FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier)".
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DNEL / PNEC

Method of testing	Contents
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Value: 298 mg/m ³
PNEC	Exposure route: Sewage treatment plant STP Value: 99,9 mg/l
PNEC	Exposure route: Saltwater Value: 0,13 mg/l
PNEC	Exposure route: Freshwater Value: 1,33 mg/l

8.2. Exposure controls

Limitation of exposure on workplace	Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.
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A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipments suitability and durability will depend on application.

Respiratory protection

Respiratory protection

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Reference to relevant standard

EN 143 (Respiratory protective devices. Particle filters. Requirements, testing, marking).

Hand protection

Hand protection

Use chemical resistant gloves.

Reference to relevant standard

BS-EN 374 (Protective gloves against chemicals and micro-organisms).
BS-EN 420 (Protective gloves. General requirements and test methods).

Suitable materials

Nitrile.

Breakthrough time

Not relevant. The chemical is a solid.

Thickness of glove material

0,11 mm

Additional hand protection measures

Replace gloves if signs of wear and tear.

Eye / face protection

Eye protection

Wear tight-fitting goggles or face shield.

Reference to relevant standard

EN 166 (Personal eye-protection. Specifications).

Skin protection

Skin protection (except hands)

Wear appropriate protective clothing to protect against skin contact.

Appropriate environmental exposure control

Environmental exposure controls

Do not allow to enter into sewer, water system or soil. See also section 12.

Other Information

Other Information

Emergency shower and eye wash facilities should be available at the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid. Powder.

Colour

White

Odour

Odourless.

Comments, Odour limit

Not specified by the manufacturer.

pH (aqueous solution)

Value: ~ 10
Test reference: @ 200 g/l
Test temperature: 20 °C

Comments, pH (aqueous solution)

Value: 8,8-10
Test reference: @ 50 g/l

Melting point/melting range

Value: > 500 °C

Comments, Melting point / melting range

(Decomposition)

Comments, Boiling point / boiling range

Not specified by the manufacturer.

Comments, Flash point

Not relevant.

Comments, Evaporation rate

Not specified by the manufacturer.

Flammability (solid, gas)

Non flammable.

Comments, Explosion limit

Not relevant.

Vapour pressure

Value: ≥ 0,1 hPa

Comments, Vapour density

Not specified by the manufacturer.

Density

Value: 2,63 g/cm³
Temperature: 20 °C

Bulk density

Value: ~ 1480 kg/m³

Solubility in water

@ 20 °C: 210 -250 g/l

	@ 40 °C: 270 g/l
Partition coefficient: n-octanol/water	Value: -4 Method of testing: Log P(o/w) (OECD 107) Test temperature: 25 °C
Comments, Spontaneous combustability	Not relevant.
Decomposition temperature	Value: > 500 °C
Comments, Viscosity	Not specified by the manufacturer.
Explosive properties	Not explosive.
Oxidising properties	Not specified by the manufacturer.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	Mol mass 126,04 g/mol
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Can react violently with sodium nitrate, sodium nitrite and oxidizing agents. Contact with acids liberates toxic gas. Danger of bursting container. Danger of explosion with acids.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Arise in contact with incompatible materials (see section 10.5) and/or under inappropriate conditions (see section 10.4).
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10.4. Conditions to avoid

Conditions to avoid	Strong heat. Moisture.
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10.5. Incompatible materials

Materials to avoid	Acids. Sodium nitrate and Sodium nitrite. Oxidizing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

LD50 oral	Value: 2610 mg/kg Animal test species: rat Test reference: OECD 401
LD50 dermal	Value: > 2000 mg/kg Animal test species: rat Test reference: OECD 402
LC50 inhalation	Value: > 5,5 mg/l Animal test species: rat Duration: 4 hours Test reference: OECD 403

Acute toxicity, Mixture estimate

Assessment of acute toxicity classification	Based on available data, the classification criteria are not met.
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Potential acute effects

Inhalation	Inhalation of dust may cause irritation to the respiratory system and give symptoms of bronchitis.
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Skin contact	Mild skin irritation
Eye contact	May cause mild irritation.
Ingestion	No specific information from the manufacturer.
Assessment corrosion / irritation classification	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Assessment eye damage or irritation, classification	Based on available data, the classification criteria are not met.

Delayed effects / repeated exposure

Sensitisation	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data the classification criteria are not met.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish	Value: 220-460 mg/l Method of testing: LC50 Fish, species: Leuciscus idus Duration: 96 hours
Acute aquatic, algae	Value: 16-32 mg/l Method of testing: EC50 Algae, species: Chlamydomonas reinhardtii
Acute aquatic, algae, Comments	Acute aquatic, algae IC50 72 hours Value: 48,1 mg/l Art: Desmodesmus subspicatus.
Acute aquatic, Daphnia	Value: 89 mg/l Method of testing: EC50 Daphnia, species: Daphnia magna Duration: 48 hours
Toxicity to bacteria	Value: 770 mg/l Exposure time: 17 Hour Species: Pseudomonas putida Method: EC50 Value: 260 mg/l Exposure time: 17 Hour Species: Pseudomonas putida Method: EC10
Ecotoxicity	The chemical is not classified as harmful to the environment.

12.2. Persistence and degradability

Persistence degradability additional info	Oxygen demand: 0,125 g/g
Persistence and degradability	The chemical consists of only inorganic compounds which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	The chemical is not expected to be bioaccumulative.
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12.4. Mobility in soil

Mobility	Soluble in water.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	PBT assessment has not been performed.
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vPvB evaluation results	vPvB assessment has not been performed.
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12.6. Other adverse effects

Other adverse effects / Remarks	Do not allow to enter into sewer, water system or soil.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Deliver to authorised waste vendor. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned below.
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Product classified as hazardous waste	No
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EWC waste code	EWC: 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
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Other Information	Do not empty into drains.
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SECTION 14: Transport information

14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.
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14.2. UN proper shipping name

Comments	Not relevant.
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14.3. Transport hazard class(es)

Comments	Not relevant.
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14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

Comments	Not relevant.
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14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	Not relevant.
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SECTION 15: Regulatory information

EC no.	231-821-4
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Norwegian regulations on waste. no. 930/2004, from the Ministry of Environment. Dangerous Goods regulations
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those
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	who handle the product.
Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road DNEL: Derived No Effect Level EWC: European Waste Code (a code from the EU's common classification system for waste) EC50: The effective concentration of substance that causes 50% of the maximum response IC50: The concentration of compound that results in 50% inhibition of a biological or biochemical function. IATA: The International Air Transport Association IMDG: The International Maritime Dangerous Goods Code LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration vPvB: very Persistent and very Bioaccumulative
Important data sources used to construct the safety data sheet	Suppliers Safety data sheet dated: 02.07.2015
Information which has been added, deleted or revised	New Safety Data Sheet.
Checking quality of information	This SDS is quality controlled by Kiwa Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.
Version	1
Responsible for safety data sheet	Acinor AS
Prepared by	Kiwa Teknologisk Institutt as, Norway by Sharon M. Løver