
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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulphite, anhydrous</td>
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<td></td>
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</tr>
</tbody>
</table>
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.

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

Other Information
Treat symptomatically. No specific information from the manufacturer.

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 (SOx).

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.

6.2. Environmental precautions

Environmental precautionary measures
Do not allow to enter into sewer, water system or soil.

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.
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.

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.

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 compatibility
Keep away from: Acids. Sodium nitrate and Sodium nitrite. Oxidizing agents. Keep away from food and drink.

7.3. Specific end use(s)
Specific use(s)
See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Value</th>
<th>TWA Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total inhalable dust</td>
<td></td>
<td>8-hour TWA: 10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Respirable dust</td>
<td></td>
<td>8-hour TWA: 4 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

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)."

DNEL / PNEC

Method of testing
Contents

DNEL
Group: Worker
Exposure route: Inhalation
Exposure frequency: Long term (repeated)
Value: 298 mg/m³

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.
A risk assessment of the workplace/work activities (the actual risk) may lead to other control measures. The protection equipment suitability and durability will depend on application.

**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**

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**

Wear tight-fitting goggles or face shield.

Reference to relevant standard

| EN 166 (Personal eye-protection. Specifications). |

**Skin protection**

Wear appropriate protective clothing to protect against skin contact.

**Appropriate environmental exposure control**

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

**Other Information**

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

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

| 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 |
Partition coefficient: n-octanol/water

| Value: -4 |

Method of testing: Log P(o/w) (OECD 107)
Test temperature: 25 °C

Comments, Spontaneous combustibility
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

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

10.2. Chemical stability

Stability
Stable under normal temperature conditions and recommended use.

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).

10.4. Conditions to avoid

Conditions to avoid
Strong heat. Moisture.

10.5. Incompatible materials

Materials to avoid
Acids. Sodium nitrate and Sodium nitrite. Oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products
None under normal conditions. See also section 5.2.

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.

Potential acute effects
Inhalation
Inhalation of dust may cause irritation to the respiratory system and give symptoms of bronchitis.
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:** Clamydomonas reinhardii

**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

- Oxygen demand: 0,125 g/g
- The chemical consists of only inorganic compounds which are not biodegradable.

#### 12.3. Bioaccumulative potential

- The chemical is not expected to be bioaccumulative.

#### 12.4. Mobility in soil

- Soluble in water.

#### 12.5. Results of PBT and vPvB assessment
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.

Product classified as hazardous waste
No

EWC waste code
EWC: 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

Other Information
Do not empty into drains.

SECTION 14: Transport information

14.1. UN number
Comments
Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name
Comments
Not relevant.

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

14.4. Packing group
Comments
Not relevant.

14.5. Environmental hazards
Comments
Not relevant.

14.6. Special precautions for user
Special safety precautions for user
Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Pollution category
Not relevant.

SECTION 15: Regulatory information

EC no.
231-821-4

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.
Dangerous Goods regulations

15.2. Chemical safety assessment
Chemical safety assessment performed
No

SECTION 16: Other information

Supplier's notes
The information contained in this SDS must be made available to all those
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 |