



# Sodium sulfite, anhydrous a.r.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 10/31/2018 Version: 1.0

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

#### 1.1. Product identifier

|                       |   |
|-----------------------|---|
| Product form          | : Substance   |
| Trade name            | : Sodium sulfite, anhydrous a.r.  |
| EC-No.                | : 231-821-4   |
| CAS-No.               | : 7757-83-7   |
| REACH registration No | : 01-2119537420-49  |
| Product code          | : CL00.1480   |
| Type of product       | : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry state only   |
| Formula               | : Na <sub>2</sub> SO <sub>3</sub>   |
| Synonyms              | : anhydrous sodium sulfite / disodium sulfite, anhydrous / E221 / exsiccated sodium sulfite / sodium sulfite (2:1), anhydrous / sodium sulfite, anhydrous / sodium sulfite, exsiccated / sodium sulfite, neutral, anhydrous / sodium sulphite / sulftech / sulfurous acid, disodium salt / sulfurous acid, sodium salt, anhydrous / S-WAT |

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemical

##### 1.2.2. Uses advised against

No additional information available

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

Chem-Lab nv  
Industriezone "De Arend" 2  
Zedelgem - Belgium  
T +32 50 288320  
[info@chem-lab.be](mailto:info@chem-lab.be) - [www.chem-lab.be](http://www.chem-lab.be)

#### 1.4. Emergency telephone number

Emergency number : +32 50 28 83 20

### SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent

| Name                           | Product identifier   | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------|--|-----|---|
| Sodium sulfite, anhydrous a.r. | (CAS-No.) 7757-83-7<br>(EC-No.) 231-821-4<br>(REACH-no) 01-2119537420-49 | 100 | Not classified  |

#### 3.2. Mixtures

Not applicable

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. |
| First-aid measures after inhalation   | : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.   |
| First-aid measures after skin contact | : Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.  |
| First-aid measures after eye contact  | : Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists. Do not apply neutralizing agents.   |
| First-aid measures after ingestion    | : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre ( <a href="http://www.big.be/antigif.htm">www.big.be/antigif.htm</a> ). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.   |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : AFTER INHALATION OF DUST: EXPOSURE TO HIGH CONCENTRATIONS: Respiratory difficulties. Irritation of the respiratory tract. Dry/sore throat. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema. |
| Symptoms/effects after skin contact | : Red skin.  |
| Symptoms/effects after ingestion    | : AFTER INGESTION OF HIGH QUANTITIES: Central nervous system depression. Dizziness. Mental confusion. Coordination disorders. Diarrhoea.   |
| Chronic symptoms                    | : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Possible inflammation of the respiratory tract.   |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment for surrounding fires.

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

Fire hazard : DIRECT FIRE HAZARD: Non combustible.  
Hazardous decomposition products in case of fire : On burning: release of toxic and corrosive gases/vapours (sulphur oxides).

#### 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.  
Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray.  
Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit.  
Emergency procedures : Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.  
Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

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

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.  
Methods for cleaning up : Prevent dust cloud formation. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Keep container tightly closed.

Hygiene measures : Observe normal hygiene standards.

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

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. alcohols. water/moisture.

Storage area : Store in a dry area. Store at ambient temperature. Keep container in a well-ventilated place. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Sodium sulfite, anhydrous a.r. (7757-83-7)

##### DNEL/DMEL (Workers)

|  |                       |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 298 mg/m <sup>3</sup> |
|--|-----------------------|

##### PNEC (Water)

|                        |           |
|------------------------|-----------|
| PNEC aqua (freshwater) | 1.33 mg/l |
|------------------------|-----------|

|                          |           |
|--------------------------|-----------|
| PNEC aqua (marine water) | 0.13 mg/l |
|--------------------------|-----------|

##### PNEC (STP)

|                             |           |
|-----------------------------|-----------|
| PNEC sewage treatment plant | 99.9 mg/l |
|-----------------------------|-----------|

#### 8.2. Exposure controls

##### Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: nitrile rubber. GIVE GOOD RESISTANCE: butyl rubber. PVC

##### Hand protection:

Gloves

##### Eye protection:

Safety glasses. In case of dust production: protective goggles

##### Skin and body protection:

Protective clothing

##### Respiratory protection:

Dust production: dust mask with filter type P1

### SECTION 9: Physical and chemical properties

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

|  |                              |
|--|------------------------------|
| Physical state                             | : Solid                      |
| Appearance                                 | : Crystalline solid. Powder. |
| Molecular mass                             | : 126.06 g/mol               |
| Colour                                     | : Colourless or white.       |
| Odour                                      | : Odourless.                 |
| Odour threshold                            | : No data available          |
| pH   | : 9.7 (5 %)                  |
| Relative evaporation rate (butylacetate=1) | : No data available          |
| Melting point                              | : No data available          |
| Freezing point                             | : No data available          |
| Boiling point                              | : No data available          |
| Flash point                                | : Not applicable             |

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|                                  |   |
|----------------------------------|---|
| Auto-ignition temperature        | : No data available   |
| Decomposition temperature        | : > 500 °C  |
| Flammability (solid, gas)        | : No data available   |
| Vapour pressure                  | : No data available   |
| Relative vapour density at 20 °C | : Not applicable  |
| Relative density                 | : 2.6   |
| Density                          | : 2633 kg/m <sup>3</sup>                                      |
| Solubility                       | : Soluble in water. Soluble in glycerol.<br>Water: 23 g/100ml |
| Log Pow                          | : -4  |
| Viscosity, kinematic             | : No data available   |
| Viscosity, dynamic               | : No data available   |
| Explosive properties             | : No data available   |
| Oxidising properties             | : No data available   |
| Explosive limits                 | : No data available   |

### 9.2. Other information

|                  |                                |
|------------------|--------------------------------|
| VOC content      | : 0 %                          |
| Other properties | : Hygroscopic. Basic reaction. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Oxidizes slowly on exposure to air. Reacts exothermically with (strong) oxidizers.

### 10.2. Chemical stability

Unstable on exposure to air. Hygroscopic.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Reacts with (some) acids: release of toxic and corrosive gases/vapours (sulphur dioxide).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Sodium sulfite, anhydrous a.r. (7757-83-7)

|   |   |
|---|---|
| LD50 oral rat                                       | 3560 mg/kg (Rat, Oral)  |
| LC50 inhalation rat (mg/l)                          | > 5.5 mg/l (4 h, Rat, Inhalation)   |
| Skin corrosion/irritation                           | : Not classified<br>pH: 9.7 (5 %)   |
| Serious eye damage/irritation                       | : Not classified<br>pH: 9.7 (5 %)   |
| Respiratory or skin sensitisation                   | : Not classified  |
| Germ cell mutagenicity                              | : Not classified  |
| Carcinogenicity                                     | : Not classified  |
| Reproductive toxicity                               | : Not classified  |
| STOT-single exposure                                | : Not classified  |
| STOT-repeated exposure                              | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Potential adverse human health effects and symptoms | : Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg). Not irritant to skin.<br>Practically non-toxic by inhalation (LC50 inh, rat > 5 mg/l/4h). Slightly irritant to respiratory organs. Slightly irritant to eyes. |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|                          |   |
|--------------------------|---|
| Ecology - general        | : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.  |
| Ecology - air            | : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).   |
| Ecology - water          | : Slightly harmful to fishes. Mild water pollutant (surface water). Not harmful to activated sludge. Harmful to algae. Slightly harmful to crustacea. pH shift. |
| Acute aquatic toxicity   | : Not classified  |
| Chronic aquatic toxicity | : Not classified  |

#### Sodium sulfite, anhydrous a.r. (7757-83-7)

|             |  |
|-------------|--|
| LC50 fish 1 | 220 - 460 mg/l (96 h, Leuciscus idus, Static system) |
|-------------|--|

#### 12.2. Persistence and degradability

##### Sodium sulfite, anhydrous a.r. (7757-83-7)

|                                 |   |
|---------------------------------|---|
| Persistence and degradability   | Biodegradability in water: no data available. |
| Biochemical oxygen demand (BOD) | 0.12 g O <sub>2</sub> /g substance            |

#### 12.3. Bioaccumulative potential

##### Sodium sulfite, anhydrous a.r. (7757-83-7)

|                           |                      |
|---------------------------|----------------------|
| Log Pow                   | -4                   |
| Bioaccumulative potential | Not bioaccumulative. |

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|  |  |
|--|--|
| Product/Packaging disposal recommendations | : Treat using the best available techniques before discharge into drains or the aquatic environment. Remove waste in accordance with local and/or national regulations. Recycle/reuse. Remove to an authorized dump (Class I). Precipitate/make insoluble. |
| Additional information                     | : Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.  |
| European List of Waste (LoW) code          | : 06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13   |

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

#### 14.6. Special precautions for user

##### Overland transport

Not applicable

##### Transport by sea

Not applicable

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### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Sodium sulfite, anhydrous a.r. is not on the REACH Candidate List

Sodium sulfite, anhydrous a.r. is not on the REACH Annex XIV List

VOC content : 0 %

Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations

##### Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 282)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

No additional information available

SDS Zonder Big

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*