

Sodium disulfite

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 05/04/2017

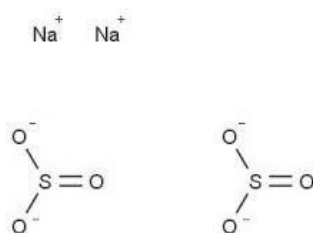
Doc No: SDS-969.076/1



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

1.1. Product identifier

Product form : Substance
Substance name : Sodium disulfite
EC Index-No. : 016-063-00-2
EC-No. : 231-673-0
CAS-No. : 7681-57-4
Type of product : Pure substance
Formula : Na₂S₂O₅
Chemical structure :



Synonyms : corexit 9186 / disodium disulfite / di sodium disulphite / disodium metabisulfite / disodium pyrosulfite / disodium pyrosulphite / disulfurous acid, disodium salt / E 223 / metabisulfite de sodium / pyrosulfurous acid disodium salt / pyrosulfurous acid sodium salt / sodium acid sulfite / sodium disulfite / sodium metabisulfite / sodium metabisulphite / sodium metabisulphite / sodium metasulfite / sodium pyrosulfite / sodium pyrosulphite / Uantox SMBS

BIG no : 13082

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 : Preservative

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH
Am Dillhof 2 - 63863 Eschau / GERMANY
Tel: +49 93 74 / 978 55-0
Fax: +49 93 74 / 978 55-29
prodsafe@isolab.de

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|---|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), UG | Hindenburgdamm 30 12203 Berlin | +49 30 19240 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302

Eye Dam. 1 H318

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

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H302 - Harmful if swallowed
H318 - Causes serious eye damage

Precautionary statements (CLP) :

P280 - Wear eye protection
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P313 - Get medical advice/ attention

EUH-statements

: EUH031 - Contact with acids liberates toxic gas

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

| Name | Product identifier | % |
|------------------|--|-----|
| Sodium disulfite | (CAS-No.) 7681-57-4 (EC-No.) 231-673-0 (EC Index-No.) 016-063-00-2 | 100 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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

: Wash with water and soap. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

: Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist. Do not apply neutralizing agents.

First-aid measures after ingestion

: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre (www.big.be/antigif.htm).

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

Symptoms/effects after inhalation

: AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. ON CONTINUOUS EXPOSURE/CONTACT: Possible inflammation of the respiratory tract. Respiratory difficulties.

Symptoms/effects after skin contact

: Red skin.

Symptoms/effects after eye contact

: Corrosion of the eye tissue. Lacrimation. Conjunctivitis.

Symptoms/effects after ingestion

: Irritation of the gastric/intestinal mucosa. Nausea. Vomiting. Abdominal pain.

Chronic symptoms

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Possible inflammation of the respiratory tract. Respiratory difficulties.

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

No additional information available

Sodium disulfite

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Date of issue: 05/04/2017

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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment.
Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD. Non combustible.
Explosion hazard : DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.

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. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. See "Material-Handling" to select protective clothing.
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 substance, pump into suitable containers. Consult "Material-handling" to select material of 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 : Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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. water/moisture.
Storage area : Store in a dry area. Keep container in a well-ventilated place. Store at ambient temperature. Meet the legal requirements.
Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials : SUITABLE MATERIAL: iron. aluminium. stoneware/porcelain. synthetic material. glass.

7.3. Specific end use(s)

No additional information available

Sodium disulfite

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Date of issue: 05/04/2017

Doc No: SDS-969.076/1



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Sodium disulfite (7681-57-4) | | |
|------------------------------|--|--|
| Belgium | Local name | Sodium (métabisulfite de) # Natriummetabisulfiet |
| Belgium | Limit value (mg/m ³) | 5 mg/m ³ (Sodium (métabisulfite de); Belgium; Time-weighted average exposure limit 8 h) |
| Croatia | Local name | Dinatrij disulfit; (Nnatrijev metabisulfit) |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 5 mg/m ³ |
| Croatia | Naznake (HR) | Xn (Štetno) |
| Denmark | Local name | Natriumpyrosulfitt (Natriummetabisulfitt) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 5 mg/m ³ |
| France | Local name | Métabisulfite de sodium |
| France | VME (mg/m ³) | 5 mg/m ³ (Sodium (métabisulfite de); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative) |
| France | Note (FR) | Valeurs recommandées/admises |
| Greece | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Ireland | Local name | Disodium disulphite |
| Ireland | OEL (8 hours ref) (mg/m ³) | 5 mg/m ³ |
| Portugal | Local name | Metabissulfito de sódio |
| Portugal | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Spain | Local name | Metabisulfito de sodio |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ |
| Spain | Notes | s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tip o=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf). |
| United Kingdom | Local name | Disodium disulphite |
| United Kingdom | WEL TWA (mg/m ³) | 5 mg/m ³ Disodium disulphite; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| Iceland | Local name | Natriummetabísúlfitt (natriumpýrósuífitt) |
| Iceland | OEL (8 hours ref) (mg/m ³) | 5 mg/m ³ |
| Norway | Local name | Natriummetabisulfitt (natriumpyrosulfitt) |
| Norway | Grenseverdier (AN) (mg/m ³) | 5 mg/m ³ |
| Switzerland | Local name | Natriummetabisulfitt |
| Switzerland | VME (mg/m ³) | 5 mg/m ³ |
| Switzerland | Remark (CH) | e(mg/m ³) - OAW ^{KT} |
| Australia | Local name | Sodium metabisulphite |
| Australia | TWA (mg/m ³) | 5 mg/m ³ Synonym (Disodium disulphite) |
| USA - ACGIH | Local name | Sodium metabisulfite |
| USA - ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ (Sodium metabisulfite; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| USA - ACGIH | Remark (ACGIH) | URT irr |

8.2. Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: polyethylene. butyl rubber. PVC

Hand protection:

Gloves

Sodium disulfite

Safety Data Sheet

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Date of issue: 05/04/2017

Doc No: SDS-969.076/1



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 P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Solid |
| Appearance | : Crystalline solid. Crystalline powder. |
| Molecular mass | : 190.11 g/mol |
| Colour | : Colourless to light yellow. |
| Odour | : Irritating/pungent odour. Unpleasant odour. |
| Odour threshold | : No data available |
| pH | : 3.5 - 5 (50 g/l, H ₂ O, 20 °C) |
| pH solution | : 5 % |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : 150 °C(decomposition) |
| Freezing point | : No data available |
| Boiling point | : Not applicable |
| Flash point | : Not applicable |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : > 150 °C |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.5 |
| Density | : 1.40-1.48 g/cm ³ |
| Solubility | : Soluble in water. Soluble in glycerol. Water: 54 g/100ml |
| Log Pow | : -3.7 |
| 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 | : Not applicable |
| Other properties | : Substance has acid reaction. |

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes slowly on exposure to air and on exposure to water (moisture). On burning: release of toxic and corrosive gases/vapours (sulphur oxides). Reacts exothermically with (strong) oxidizers. Reacts with (some) acids: release of toxic and corrosive gases/vapours (sulphur dioxide).

10.2. Chemical stability

Unstable on exposure to moisture. Unstable on exposure to air.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

Sodium disulfite

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 05/04/2017

Doc No: SDS-969.076/1



10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| Sodium disulfite (7681-57-4) | |
|------------------------------|--------------------|
| LD50 oral rat | 1540 mg/kg (Rat) |
| LD50 dermal rat | > 2000 mg/kg (Rat) |

Skin corrosion/irritation : Not classified
pH: 4.5 (25 %)

Serious eye damage/irritation : Causes serious eye damage.
pH: 4.5 (25 %)

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

IARC group : 3

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : Mild water pollutant (surface water). Maximum concentration in drinking water: 200 mg/l (sodium) (Directive 98/83/EC). Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Harmful to invertebrates. Harmful to algae. pH shift. Not harmful to activated sludge.

| Sodium disulfite (7681-57-4) | |
|------------------------------|--|
| LC50 fish 2 | 150 - 220 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 1 | 89 mg/l (EC50; 24 h) |
| Threshold limit algae 1 | 48 mg/l (EC50; 72 h) |

12.2. Persistence and degradability

| Sodium disulfite (7681-57-4) | |
|------------------------------|-------------------------------------|
| Chemical oxygen demand (COD) | 0.154 g O ₂ /g substance |

12.3. Bioaccumulative potential

| Sodium disulfite (7681-57-4) | |
|------------------------------|----------------------------------|
| Log Pow | -3.7 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

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

Sodium disulfite

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Doc No: SDS-969.076/1



SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump (Class I).
- Additional information : LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.
- 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 |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| 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

- 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 disulfite is not on the REACH Candidate List

Sodium disulfite is not on the REACH Annex XIV List

VOC content : Not applicable

15.1.2. National regulations

Sodium disulfite

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Doc No: SDS-969.076/1



Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 1169)

WGK remark : Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)

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

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|-------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| PBT | Persistent Bioaccumulative Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

| | |
|-------------------------------------|---|
| Full text of H- and EUH-statements: | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| H302 | Harmful if swallowed |
| H318 | Causes serious eye damage |
| EUH031 | Contact with acids liberates toxic gas |

SDS ISOLAB

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