

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product identifier:**

**Product form:** Substance  
**Substance name:** SODIUM METABISULPHITE  
**EU index number:** 016-063-00-2  
**EC number:** 231-673-0  
**CAS number:** 7681-57-4  
**REACH registration number:** 01-2119531326-45-XXXX

**Relevant identified uses of the substance or mixture and uses advised against:**

**Relevant identified uses:**

**Identified use(s):** For industrial use, food additive, reducing agent, whitening agent, for professional use.

**Uses advised against:** No information given.

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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

**EC Regulation Criteria 1272/2008 (CLP):**

Warning, Acute Tox. 4, Harmful if swallowed.  
Danger, Eye Dam. 1, Causes serious eye damage.  
EUH031 Contact with acids liberates toxic gas.

**Adverse physicochemical, human health and environmental effects:** No other hazards

**Label elements:**

**Symbols:**



**Signal word:** Danger

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**Hazard statements (CLP):** H302 - Harmful if swallowed.  
H318 - Causes serious eye damage.

**Precautionary statements (CLP):** P264 Wash hands thoroughly after handling.  
P280 - Wear protective gloves, protective clothing, eye protection, face 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.  
P310: Immediately call a doctor.  
P330: Rinse mouth.

**EUH-statements:** EUH031 - Contact with acids liberates toxic gas.

**Special provisions according to Annex XVII of REACH and subsequent amendments:** None

**Other hazards:**

**vPvB Substances:** None

**PBT Substances:** None

**Other Hazards:** No other hazards

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances:**

**Name:** SODIUM METABISULPHITE

**CAS number:** 7681-57-4

**EC number:** 231-673-0

**REACH number:** 01-2119531326-45-XXXX

Quantity	Name	Identification numbers	Classification
>=90%	Sodium Metabisulphite	Index No. 016-063-00-2 CAS No. 7681-57-4 EC No. 231-673-0 REACH 01-2119531326-45-XXXX	3.3/1 Eye Dam. 1 H318 3.1/4/Oral Acute Tox. 4 H302 EUH031

### 4. FIRST AID MEASURES

**Description of first aid measures:**

**Inhalation:** Remove casualty to fresh air and keep warm and at rest.

**Skin contact:** Immediately take off all contaminated clothing. After contact with skin, wash immediately with soap and plenty of water. In case of persistent skin irritation consult a doctor.

**Eye contact:** Irrigate eyes with copious amounts of water for at least 10-15 min, holding eyelids apart to ensure thorough rinsing Protect uninjured eye. OBTAIN IMMEDIATE MEDICAL ATTENTION.

**Ingestion:** Do not induce vomiting, get medical attention showing the SDS and hazard labelling. OBTAIN IMMEDIATE MEDICAL ATTENTION. Give nothing to eat or drink.

**Most import symptoms and effects, both acute and delayed:** Eye damage

**Indication of any immediate medical attention and special treatment needed:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

[cont...]

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:**

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray, (fog) or foam according to the materials involved in the fire.

**Unsuitable extinguishing media:** None in particular

**Special hazards arising from the substance or mixture:**

The product is not flammable. Releases toxic and irritating sulphur oxides at fire temperatures.  
Hazardous combustion products: Sulphur oxides (SO<sub>x</sub>).

**Advice for fire-fighters:**

Wear suitable protective clothing (helmet, protective clothing, goggles, fire resistant gloves, boots) and protect respiratory organs (self-contained breathing apparatus).

Use suitable breathing apparatus.

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.

**Environmental precautions:**

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

**Methods and material for containment and cleaning up:**

Collect mechanically. Collect spill in suitable containers by mechanical means. Avoid dust formation. Ensure adequate ventilation. After the product has been recovered, rinse the area and materials involved with water. Dispose of the collected material in accordance with the current regulations. Retain contaminated washing water and dispose it.

**Reference to other sections:**

See also section 8 and 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Avoid contact with skin and eyes. Do not breathe dust. See, too, paragraph 8 below. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

**Advice on general occupational hygiene:** Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

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

Keep away from food, drink and feed.

**Incompatible materials:** Keep away from oxidising agents Keep away from acids.

**Instructions as regards storage premises:** Keep this product in a dry place.

Cool and adequately ventilated, adequately ventilated premises.

**Packaging materials:** Keep containers tightly closed and properly labelled.

### Specific end use(s):

**Recommendation(s):** None in particular.

**Industrial sector specific solutions:** None in particular.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters:

**SODIUM METABISULPHITE - CAS: 7681-57-4**

ACGIH- mg/m<sup>3</sup> 5 A4 – URT irr.

### DNEL Exposure Limit Values:

Worker Industry: 225 mg/m <sup>3</sup>	Exposure: Human Inhalation	Frequency: Long Term, systemic effects
Consumer: 66 mg/m <sup>3</sup>	Exposure: Human Inhalation	Frequency: Long Term, local effects
Consumer: 8.6 mg/kg	Exposure: Human Oral	Frequency: Long Term, local effects

### PNEC Exposure Limit Values:

Target:	Fresh Water	Value: 1 mg/l
Target:	Marine water	Value: 0.1 mg/l
Target:	Microorganisms in sewage treatments	Value: 75.4 mg/l

### Exposure controls:

**Individual protection measures:** Personal protective equipment selections vary based on potential exposure conditions and working conditions. The final choice of protective equipment will depend upon a risk assessment.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Please see both sections 5 and 6 for information about personal protective equipment to be worn in an emergency (e.g.: fire or unintentional release of the substance).

### Respiratory protection:

Depending on the potential for exposure, select respiratory protective equipment suitable for the specific conditions of use and in compliance with current legislation. Half-face mask with combined filter.

Technical reference standard for filters to be used in the presence of gases and vapours: UNI EN 14387 Combined filter: E/P1-P2. Filter mask FFP2/FFP3 for solid particles Technical reference standard: UNI EN 149

### Eye protection:

Eyeglasses with side protection. Technical reference standard: UNI EN 166

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<b>Skin protection:</b>	Wear chemical resistant clothing. Technical reference standard: UNI EN 13034 Wear chemical resistant safety shoes. Technical reference standard: UNI EN 20345
<b>Hand protection:</b>	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Wear suitable gloves tested to EN374. Suitable material: NBR (nitrile rubber) (Recommended thickness of the material: 0.4 mm; Permeation time: > 480 min)
<b>Thermal Hazards:</b>	None
<b>Environmental exposure controls:</b>	None
<b>Appropriate engineering controls:</b>	None
<b>Hygiene and technical measures:</b>	None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Physical state:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Pungent
<b>Odour threshold:</b>	Not stated
<b>pH:</b>	3.5 – 5 (5%)
<b>Kinematic viscosity:</b>	N.A. (Does not apply to solid)
<b>Melting point / freezing point:</b>	N.A.
<b>Initial boiling point and boiling range:</b>	N.A. (Study technically not feasible)
<b>Flash point:</b>	N.A. (Study scientifically not necessary)
<b>Upper/lower flammability or explosive limits:</b>	Not Relevant
<b>Vapour density:</b>	N.A.
<b>Vapour pressure:</b>	N.A.
<b>Relative density:</b>	1.2-1.3 Kg/dm <sup>3</sup> Solubility in water: 470 g/L H <sub>2</sub> O (20°C)
<b>Solubility in oil:</b>	N.A.
<b>Partition coefficient (n-octanol/water):</b>	-3.70
<b>Auto-ignition temperature:</b>	N.A.
<b>Decomposition temperature:</b>	150°C
<b>Flammability:</b>	Non-flammable
<b>Volatile Organic compounds – VOCs:</b>	N.A.
<b>Particle characteristics:</b>	
<b>Particle size:</b>	200 – 350 µm (Method of calculation of the diameter: Volume-based)

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### 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under normal conditions.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** Humidity. Keep away from heat and direct sunlight.

**Incompatible materials:** Acids and oxidants.

**Hazardous decomposition products:** Toxic gases. Sulphur Dioxide.

### 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects:** SODIUM METABISULPHITE - CAS: 7681-57-4

**Acute toxicity:** The product is classified: Acute Tox. 4 H302

**Route:**

**Species:**

LD50 - Oral

Rat 1540 mg/kg

LD50 Skin

Rat > 2000 mg/kg

The product has not been tested.

The statement was derived from substances /products of similar structure or composition. - OECD 402

LC50 Inhalation

Rat > 5.5 mg/l

The product has not been tested. The statement was derived from substances/products of similar structure or composition. - OECD 403

**Skin corrosion/irritation:** Not classified. Based on available data, the classification criteria are not met

**Skin Irritant:** Negative - Based on available data, the classification criteria are not met - OECD 404

**Serious eye damage/irritation:** The product is classified: Eye Dam. 1 H318 Test: Eye Corrosive Rabbit Positive – OECD 405

**Respiratory or skin sensitisation:** Not classified. Based on available data, the classification criteria are not met

**Skin Sensitisation:** Negative - Based on available data, the classification criteria are not met - OECD 429

**Germ cell mutagenicity:** Not classified. Based on available data, the classification criteria are not met

**Carcinogenicity:** Not classified. Based on available data, the classification criteria are not met

**Reproductive toxicity:** Not classified. Based on available data, the classification criteria are not met

**STOT-single exposure:** Not classified. Based on available data, the classification criteria are not met

**STOT-repeated exposure:** Not classified. Based on available data, the classification criteria are not met.

No Observed Adverse. Effect Level Oral Rat 108.

**Aspiration hazard:** Not classified. Based on available data, the classification criteria are not met.

**Endocrine disrupting properties:** This substance has no endocrine disrupting properties.

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### 12. ECOLOGICAL INFORMATION

**Toxicity:** Adopt good working practices, so that the product is not released into the environment.

**List of Eco-Toxicological properties of the product:** Not classified for environmental hazards.

Based on available data, the classification criteria are not met.

**Aquatic acute toxicity:** LC50 Fish *Salmo gairdneri* = 149.6 mg/l 96h - mg SO3 2-/L

**Aquatic acute toxicity:** EC50 *Daphnia* = 74.9 mg/l 48h - mg SO3 2-/L

**Aquatic acute toxicity:** EC50 Algae *Scenedesmus subspicatus* = 36.8 mg/l 72h - mg SO3 2-/L

**Aquatic chronic toxicity:** EC10 Fish *Danio rerio* = 50 mg/l - mg SO3 2-/L

**Aquatic chronic toxicity:** EC10 Algae *Scenedesmus subspicatus* = 28 mg/l - mg SO3 2-/L

**Aquatic chronic toxicity:** NOEC *Daphnia* 8.41 mg/l - mg SO3 2-/L

**Persistence and degradability:** The substance is an inorganic compound and therefore cannot be subject to biodegradation.

**Bio accumulative potential:** Bioaccumulation is not to be expected.

**Mobility in soil:** Adsorption to solid soil phase (e.g. clay) is not expected.

**Results of PBT and vPvB assessment:** This substance has no PBT, vPvB or endocrine disrupting properties.

**Endocrine disrupting properties:** This substance has no endocrine disrupting properties.

**Other adverse effects:** None.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Recover if possible. Sent to authorised disposal plants or for incineration under controlled conditions. In doing so, comply with the local and national regulations currently in force.

### 14. TRANSPORT INFORMATION

**UN Number:** Not classified in the meaning of transport regulations.

**Proper Shipping Name:** Not classified in the meaning of transport regulations.

**Transport hazard class:** Not classified in the meaning of transport regulations.

**Packing group:** Not classified in the meaning of transport regulations.

**Environmental:** Not classified in the meaning of transport regulations.

**Marine pollutant:** No.

**Special precautions for users:** Not classified in the meaning of transport regulations.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No.

### 15. REGULATORY INFORMATION

**Chemical safety assessment:** Chemical safety assessment not required.

A Chemical Safety Assessment has been carried out for the substance.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

[cont...]

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### 16. OTHER INFORMATION

Code	Description
EUH031	Contact with acids liberates toxic gas.
H302	Harmful if swallowed.
H318	Causes serious eye damage.

Code	Hazard class and hazard category	Description
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.3/1	Eye Dam. 1	Serious eye damage, Category 1

#### Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.