

Product Name	Sodium Metabisulphite
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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

**1.1. Product identification:**

**Product Description:** Sodium Metabisulphite

**Synonyms:** Disodium disulfite; Disodium pyrosulfite; Sodium Pyrosulfite

**CAS-No:** 7681-57-4

**EC-No.:** 231-673-0

**Molecular Formula:** Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>

**REACH Registration No:** A registration number is not available for this substance as the substance or its uses are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

**Recommended Use:** Industrial use, Professional use, Reducing agents, used as pharma excipient

**Uses advised against:** No Information available

**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- **E-mail Address** [safety.finar@actylis.com](mailto:safety.finar@actylis.com); [info.finar@actylis.com](mailto:info.finar@actylis.com)

**1.4. Emergency telephone number:**

- For Emergency contact on: +91 - 2717 - 616 717

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 4), H302

Serious Eye Damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2. Label elements:****Labelling according Regulation (EC) No 1272/2008****Pictogram****Signal Word:** Danger**Hazard Statements:**

H302 - Harmful if swallowed

H318 - Causes Serious eye damage

EUH031 - Contact with acids liberates toxic gas.

**Precautionary Statements:****Prevention**

P280 Wear eye protection.

**Response**

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.

**Reduced labelling ( $\leq 125$  ml)****Pictogram****Signal word** Danger

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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**Hazard statements**

H318 Causes serious eye damage.

**Precautionary statements**

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.

**2.3. Other hazards:**

None Known

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances:** Sodium Metabisulphite

**3.2. Mixtures:**

<b>Component</b>	<b>CAS-No</b>	<b>EC-No.</b>	<b>Weight %</b>
Sodium Metabisulphite	7681-57-4	231-673-0	100%

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures:**

- **General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Eye Contact:** Rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
- **Skin Contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- **Swallowed:** Immediately make victim drink water (two glasses at most). Consult a physician.
- **Inhalation:** Fresh Air.

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

Irritation and corrosion

Risk of serious damage to eyes.

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

No data available

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media:**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** For this substance/mixture no limitations of extinguishing agents are given.

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

Not combustible.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of: Sulphur oxides

### **5.3. Advice for firefighters:**

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

### **5.4 Further Information:**

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

### **6.2. Environmental precautions:**

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### **6.4. Reference to other sections:**

For disposal see section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling:**

Advice on safe handling

Observe label precautions.

Hygiene measures

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

**7.2. Conditions for safe storage, including any incompatibilities:**

Storage conditions

Tightly closed. Dry.

Recommended storage conditions, see product label.

**7.3. Specific end use(s):**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters:**

**Components with workplace control parameters**

**8.2. Exposure controls:**

**Appropriate engineering controls**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

**Personal protective equipment:**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**- Eye/Face Protection-**

Tightly Fitting Safety Goggles

**- Hand protection –**

Full contact:

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: >480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: >480 min

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
---------------------	------------------------------

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC And the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by Us and for the designated use. When dissolving in or mixing with other substances and under

conditions

deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

- **Other protective equipment-**

Protective clothing

- **Respiratory protection-**

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

- **Control of environmental exposure**

Do not let product enter drains.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

- **Appearance: Color:** Colorless
- **Physical State:** Powder
- **Odor:** Slight
- **Odor Threshold:** No Data Available
- **pH:** 3.5 to 5 at 50 g/l at 20 °C
- **Melting Point:** Ca. 150°C (Decomposition)
- **Auto-Ignition Temperature:** No Data Available

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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- **Vapor Pressure:** No Data Available
- **Vapor Density:** No Data Available
- **Bulk Density:** 1,000 - 1,200 kg/m<sup>3</sup>
- **Volatility:** No Data Available
- **Odor Threshold:** No Data Available
- **Water/Oil Dist. Co eff.:** No Data Available
- **Partition coefficient n-octanol/water:** No Data Available
- **Ionicity (in Water):** No Data Available
- **Decomposition Temperature:** > 150 °C
- **Boiling Point/Range:** No Data Available
- **Flash Point:** No Data Available
- **Specific Gravity:** 1.4
- **Density:** 2.36 g/cm<sup>3</sup> at 20°C
- **Water Solubility:** Ca. 650 g/l at 20°C

**9.2. Other information:**

**Molecular Formula:** Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>

**Molecular Weight:** 190.13 g/mol

## **SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity:**

See Section 10.3

**10.2. Chemical stability:**

The product is chemically stable under standard ambient conditions (room temperature).

**10.3. Possibility of hazardous reactions:**

Exothermic reaction with: Oxidizing agents, nitrites, nitrates, Sulphides

Generates dangerous gases or fumes in contact with: Acids

**10.4. Conditions to avoid:**

Strong heating (decomposition).

**10.5. Incompatible materials:**

No Data Available

**10.6. Hazardous decomposition products:**

In the event of fire: see section 5

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects:**

#### **Acute Oral toxicity**

LD50 Rat: 1,540 mg/kg

OECD Test Guideline 401

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

#### **Acute inhalation toxicity**

Symptoms: Possible damages:, mucosal irritations

#### **Acute dermal toxicity**

LD50 Rat: > 2,000 mg/kg

(RTECS)

#### **Skin corrosion/irritation**

Skin - Rabbit

Result: No Skin irritation

OECD Test Guideline 404

#### **Serious eye damage/eye irritation**

Rabbit

Result: Eye irritation

OECD Test Guideline 405

Causes serious eye damage.

#### **Sensitisation**

Sensitisation test: Guinea pig

Result: negative (External MSDS)

#### **Germ cell mutagenicity**

Genotoxicity in vitro

Ames test

Result: negative

Method: OECD Test Guideline 471

Mutagenicity (mammal cell test): micronucleus.

Result: negative (IUCLID)

#### **Carcinogenicity**

Did not show carcinogenic effects in animal experiments. (IUCLID)

#### **Reproductive toxicity**



<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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No impairment of reproductive performance in animal experiments. (IUCLID)

**Specific target organ toxicity - single exposure**

No Data Available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

After absorption: We have no description of any symptoms of toxicity.

Other dangerous properties cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity:**

Toxicity to fish: LC50 *Oncorhynchus mykiss* (rainbow trout): 150 - 220 mg/l; 96 h

DIN 38412 part 15

Toxicity to daphnia: EC50 *Daphnia magna* (Water flea): 89 mg/l; 48 h

and other aquatic (OECD Test Guideline 202)

invertebrates

Toxicity to algae: IC50 *Desmodesmus subspicatus* (green algae): 48 mg/l; 72 h

(OECD Test Guideline 201)

Toxicity to bacteria: EC50 *Pseudomonas putida*: 56 mg/l; 17 h

(IUCLID)

**12.2. Persistence and degradability Persistence:**

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Chemical Oxygen Demand (COD)

165 mg/g

(calculated) (External MSDS)

**12.3. Bio accumulative potential:**

No data available

**12.4. Mobility in soil:**

No data available

**12.5. Results of PBT and vPvB assessment:**

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

**12.6. Other adverse effects:**

Discharge into the environment must be avoided.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods:**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

### **SECTION 14: TRANSPORT INFORMATION**

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Not Relevant			

Product Name	Sodium Metabisulphite
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## **SECTION 15: REGULATORY INFORMATION**

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

National Legislation

Storage Class 10-13

### **15.2 Chemical safety assessment:**

For this product, a chemical safety assessment is not carried out.

## **SECTION 16: OTHER INFORMATION**

- **Full text of H-Statements referred to under sections 2 and 3:**

- H302 - Harmful if swallowed
- H318 – Causes Serious eye damage

#### **Training advice:**

Provide adequate information, instruction and training for operators.

#### **Labelling**

#### **Pictogram**



**Signal Word:** Danger

#### **Hazard Statements:**

H302 - Harmful if swallowed

H318 - Causes Serious eye damage

EUH031 - Contact with acids liberates toxic gas.

#### **Precautionary Statements:**

##### **Prevention**

P280 Wear eye protection.

##### **Response**

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.

- **References:** Not available

<b>Product Name</b>	<b>Sodium Metabisulphite</b>
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- **Created on:** 30/07/2021
- **Updated On:** 30/09/2023

**Disclaimer:**

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