# Material Safety Data Sheet

# Sodium Bisulfite

## 1. Product Identification

**Product Name:** Sodium Bisulfite

**Synonyms:** Sulfurous acid, monosodium salt; Sulfurous acid, monosodium salt; Sodium sulhydrate; Sodium hydrogen sulfite; Sodium acid sulfite; Monosodium sulfite; Hydrogen sulfite sodium

**Supplier Information:**
Global Chemical Resources
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**Emergency Contact Information:**
24 Hour Chemical Emergency. Call CHEMTREC: 800-424-9300

## 2. Hazard(s) Identification

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute toxicity, Oral (Category 4)
Serious eye damage (Category 1)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Harmful if swallowed. Risk of serious damage to eyes. Contact with acids liberates toxic gas

**Pictogram**

**Signal word:** Danger

**Hazard Statements:**

**H320** harmful if swallowed
**H318** Causes Serious eye damage

**Precautionary Statements:**

**P280** Wear protective gloves/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

**Supplemental Hazard information (EU)**

**EUH031** Contact with acids liberates toxic gas.

## 3. Composition/Information on Ingredients

**Mixtures**

**Synonyms:** Sodium Hydrogensulfite

| **Sodium Hydrogensulfite** | | |
|---|---|---|
| **CAS #** | 7631-90-5 | Acute Tox. 4; H302, EUH031 |
| **EC #** | 231-548-0 | Xn, R22 - R31 |
| **Index #** | 016-064-00-8 | |

| **Sodium Metabisulfite** | | |
|---|---|---|
| **CAS #** | 7681-57-4 | Acute Tox. 4; Eye Dam. 1; |
| **EC #** | 231-673-0 | H302, H318, EUH031 |
| **Index #** | 016-063-00-2 | Xn, R22 - R31 - R41 |

## 4. First-Aid Measures

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**Most important symptoms and effects, both acute and delayed**

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, chest pain

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

no data available

## 5. Fire-Fighting measures

**Suitable extinguishing media:** Dry powder
**Special hazards arising from the substance or mixture:** no data available
**Advice for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary
**Further information:** no data available

## 6. Accidental Release Measures

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage. Do not store near acids.
Air and moisture sensitive

## 8. Exposure Controls/Personal Protection

**Exposure Limits:**

OSHA PEL**:** None Listed
ACGIH: 5 mg/m3 TWA
NIOSH: 5 mg/m3 TWA

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique
(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 9. Physical and Chemical Properties

**Required Information:**

| | |
|---|---|
| **Appearance:** | Coarse white granules |
| **Odor:** | Slight Odor of Sulfur Dioxide |
| **Odor Threshold:** | Not Available |
| **pH:** | Not Available |
| **Melting/Freezing Point:** | 300°C |
| **Initial boiling Point and Range:** | Not Available |
| **Flash Point:** | Not Available |
| **Evaporation Rate:** | Not Available |
| **Flammability:** | Not Available |
| **Upper/Lower Flammability Limits:** | Not Available |
| **Vapor Pressure:** | Not Available |
| **Vapor Density:** | Not Available |
| **Relative Density:** | Not Available |
| **Solubility:** | Very soluble in water, insoluble in alcohol. |
| **Partition Coefficient:** | Not Available |
| **Auto-Ignition Temperature:** | Not Available |
| **Decomposition Temperature:** | Not Available |
| **Viscosity:** | Not Available |

## 10. Stability and Reactivity

**Exposure Limits:**

| | |
|---|---|
| OSHA PEL: | None Listed |
| ACGIH: | 5 mg/m3 TWA |
| NIOSH: | 5 mg/m3 TWA |

**Stability:**
Strength diminishes somewhat with age. Gradually decomposes in air to sulfate, generating sulfurous acid gas. Contact with moisture (water, wet ice, etc.), will release toxic sulfur dioxide gas.

**Hazardous Decomposition Products:**
Burning may produce sulfur oxides.

**Hazardous Polymerization:**
Will not occur.

**Incompatibilities:**
Water, acids, alkalis, sodium nitrite, oxidizers, aluminum powder.

**Conditions to Avoid:**
Moisture, heat, flames, ignition sources and incompatibles.

## 11. Toxicological Information

**Sodium Metabisulfite [7681-57-4]:**
No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen, mutagen and reproductive effector.
**Sodium Bisulfite [7631-90-5]:** Oral rat LD50: 2000 mg/kg. Investigated as a tumorigen and mutagen.

| | |
|---|---|
| **Acute toxicity:** | no data available |
| **Skin corrosion/irritation:** | no data available |
| **Serious eye damage/eye irritation:** | no data available |
| **Respiratory or skin sensitization:** | no data available |
| **Germ cell mutagenicity:** | no data available |

**Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium hydrogensulphite)
3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium hydrogensulphite)
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium metabisulphite)

| | |
|---|---|
| **Reproductive toxicity:** | no data available |
| **Specific target organ toxicity - single exposure:** | no data available |
| **Specific target organ toxicity - repeated exposure:** | no data available |
| **Aspiration hazard:** | no data available |

**Potential health effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
**Ingestion:** Harmful if swallowed.
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.
**Eyes:** Causes eye burns.

**Signs and Symptoms of Exposure:**
Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, chest pain
Additional Information

**RTECS:** Not available

## 12. Ecological Information

**Environmental Fate:** No information found.
**Environmental Toxicity:** No information found.
**Persistence and degradability:** No information found
**Bioaccumulative Potential:** No information found
**Mobility in soil:** No information found
**Results of PBT and vPvB:** No information found
**Other adverse Effects:** Harmful to aquatic life

## 13. Disposal considerations

**Waste treatment methods**

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**: Dispose of as unused product

## 14. Transportation Information

Not classified as a hazardous material.

## 15. Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture:** no data available
**Chemical Safety Assessment:** no data available

# 16.

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