



## Material Safety Data Sheet

Product Name	<u>Sodium bisulfite</u>
--------------	-------------------------

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### 1.1. Product identification:

**Product Description:** Sodium bisulfite

**Synonyms:** Sodium hydrogen sulfite

**CAS-No:** 7631-90-5

**EC-No.:** 231-548-0

**Molecular Formula:** NaHSO<sub>3</sub>

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

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

- **Company** **Sulfurshimi Kashan**  
No. 315, Kolahdooz St, Pasdaran  
Ave, Tehran, Iran  
Web: [www.sulfurshimi.com](http://www.sulfurshimi.com)
- **E-mail Address** [info@sulfurshimi.com](mailto:info@sulfurshimi.com)

#### 1.2. Emergency telephone number:

- For Emergency contact on: +98 - 2122 - 765743

### **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

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:** Warning



## Material Safety Data Sheet

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

### Hazard Statements:

H302 - Harmful if swallowed.

### Precautionary Statements:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

Rinse mouth.

### Supplemental Hazard Information (EU):

EUH 031 Contact with acids liberates toxic gases

CAS-No: 7631-90-5

### 2.3. Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

3.1. **Substances:** Sodium bisulfite

3.2. **Mixtures:**

Component	CAS-No	EC-No.	Weight %
Sodium bisulfite	7631-90-5	231-548-0	>95

## **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:**

Flush eyes with water as a precaution.

- **Skin Contact:**

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



---

## Material Safety Data Sheet

---

Product Name	<u>Sodium bisulfite</u>
--------------	-------------------------

- **Swallowed:**

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

- **Inhalation:**

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

Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

### **SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media:**

**Suitable extinguishing media:** Use water spray-dry chemical or carbon dioxide

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

Not combustible.

Sulfur oxides, Sodium oxides

**5.3. Advice for firefighters:**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further Information:**

No data available

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

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.



---

## Material Safety Data Sheet

---

<b>Product Name</b>	<b><u>Sodium bisulfite</u></b>
---------------------	--------------------------------

**6.2. 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.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections:**

For disposal see section 13.

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

**7.1. Precautions for safe handling**

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.  
Should not be released into the environment.

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

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Never allow product to get in contact with water during storage. Do not store near acids.  
Air and moisture sensitive.

**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:**

**Ingredients with workplace control parameters**

**8.2. Exposure controls:**

**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-**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face



---

## Material Safety Data Sheet

---

<b>Product Name</b>	<b><u>Sodium bisulfite</u></b>
---------------------	--------------------------------

protection regulations in 29 CFR 1910.133 or European Standard EN166.

### **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 fullface 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).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

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

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

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** Rotten-egg like
- **Odor Threshold:** No data available
- **pH:** 4-5 25% aq solution
- **Melting Point:** 150°C
- **Auto-Ignition Temperature:** No data available
- **Vapor Pressure:** No data available
- **Vapor Density:** No data available
- **Bulk Density:** No data available
- **Volatility:** No data available
- **Odor Threshold:** No data available
- **Water/Oil Dist. Co eff.:** No data available



---

## Material Safety Data Sheet

---

<b>Product Name</b>	<b><u>Sodium bisulfite</u></b>
---------------------	--------------------------------

- **Partition coefficient n-octanol/water:** No data available
- **Ionicity (in Water):** No data available
- **Decomposition Temperature:** No data available
- **Boiling Point/Range:** No data available
- **Flash Point:** No data available
- **Specific Gravity:** 1.480
- **Relative Density:** 1.348 g/cm<sup>3</sup> at 20 °C
- **Water Solubility:** 300 g/l / ca.42 g/l at 20 °C - completely soluble

### 9.2. Other information:

**Molecular Formula:** NaHSO<sub>3</sub>

**Molecular Weight:** 104.06 g/mol

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

### 10.1. Reactivity:

Contact with acids liberates toxic gas.

### 10.2. Chemical stability:

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions:

No data available

### 10.4. Conditions to avoid:

No data available

### 10.5. Incompatible materials:

Strong oxidizing agents, Strong acids

### 10.6. Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Sulfur oxides, Sodium Oxides

Other decomposition products - No data available

In the event of fire: see section 5



---

## Material Safety Data Sheet

---

Product Name	<u>Sodium bisulfite</u>
--------------	-------------------------

### **SECTION 11: TOXICOLOGICAL INFORMATION**

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

##### **Acute Oral toxicity**

No data available

LD50 Oral - Rat - male and female - 1.540 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5,5 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

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

No data available

Skin - Rabbit

Result: No Skin irritation

OECD Test Guideline 404

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

No data available

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

##### **Sensitisation**

No data available

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

##### **Germ cell mutagenicity**

No data available

Rat - male

Result: negative

(ECHA)



---

## Material Safety Data Sheet

---

<b>Product Name</b>	<b><u>Sodium bisulfite</u></b>
---------------------	--------------------------------

### **Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### **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

### **Additional Information**

Repeated dose toxicity - Rat - male and female – Oral (ECHA)

RTECS: Not available

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity:**

Toxicity to fish:

Static test LC50 - *Leuciscus idus* (Golden orfe) - > 215 - < 464 mg/l; 96 h

Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates:

Static test EC50 - *Daphnia magna* (Water flea) - 89 mg/l - 48 h

Remarks: (ECHA)

Toxicity to algae:

Static test ErC50 - *Desmodesmus subspicatus* (green algae) – 43.8mg/l - 72 h

(OECD Test Guideline 201)





---

## Material Safety Data Sheet

---

<b>Product Name</b>	<b><u>Sodium bisulfite</u></b>
---------------------	--------------------------------

Toxicity to bacteria:

Static test EC50 - activated sludge - > 1.000 mg/l - 3 h

(OECD Test Guideline 209)

**12.2. Persistence and degradability Persistence:**

No data available

**12.3. Bio accumulative potential:**

No data available

**12.4. Mobility in soil:**

No data available

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6. Other adverse effects:**

Harmful to aquatic life.

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

**13.1. Waste treatment methods:**

**Product**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle un-cleaned containers like the product itself.

**Contaminated packaging**

Dispose of as unused product



## Material Safety Data Sheet

Product Name **Sodium bisulfite**

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

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	-		
14.2 Proper shipping name	Not dangerous goods		
14.3 Class	-		
14.4 Packing group	-		
14.5 Environmentally hazardous	No		
14.6 Special precautions for user	No data available		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Relevant		

### **SECTION 15: REGULATORY INFORMATION**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**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

EUH031 Contact with acids liberates toxic gas.

**References:** Not available



---

## Material Safety Data Sheet

---

<b>Product Name</b>	<b><u>Sodium bisulfite</u></b>
---------------------	--------------------------------

**Created on:** 07/07/2020

### **Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Finar Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Finar Limited has been advised of the possibility of such damages.