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: NaHSO₃

REACH Registration No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Recommended Use: Laboratory chemicals

1.2. Details of the supplier of the safety data sheet:

- Company: Finar Limited
  184-186/P, Chacharwadi Vasna,
  Sarkhej-Bavla Highway,
  Ta.: Sanand, Dist.: Ahmedabad,
  Email: info@finarchemicals.com
  Web: www.finarchemicals.com

- E-mail Address: safety@finarchemicals.com; info@finarchemicals.com

1.3. Emergency telephone number:

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 – 40040085
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

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:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>EC-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bisulfite</td>
<td>7631-90-5</td>
<td>231-548-0</td>
<td>&gt;95</td>
</tr>
</tbody>
</table>

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.

- **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.

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 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
- 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/cm3 at 20 °C
- Water Solubility: 300 g/l / ca.42 g/l at 20 °C - completely soluble

9.2. Other information:
- Molecular Formula: NaHSO₃
- 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

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
### 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)

### 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)
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

### SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>Land transport (ADR/RID)</th>
<th>Air transport (IATA)</th>
<th>Sea transport (IMDG)</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>14.2 Proper shipping name</th>
<th>Not dangerous goods</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>14.3 Class</th>
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<table>
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<tr>
<th>14.4 Packing group</th>
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<tr>
<th>14.5 Environmentally hazardous</th>
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<table>
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<tr>
<th>14.6 Special precautions for user</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</th>
<th>Not Relevant</th>
</tr>
</thead>
</table>

### 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

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Sodium bisulfite</th>
</tr>
</thead>
</table>

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

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