

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Sodium Bisulfite 40% ACS Grade  
**Synonyms:** sodium hydrogen sulfite, Sodium Bisulfite  
**CAS Number:** 7631-90-5  
**Grade/Purity:** ACS Grade  
**Product Type:** Salts  
**Product Use:** Industrial, Manufacturing or Laboratory use  
**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574  
**Information:** 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)  
**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

|        |                                        |
|--------|----------------------------------------|
| EUH031 | Contact with acids liberates toxic gas |
| H302   | Harmful if swallowed                   |
| H318   | Causes serious eye damage              |

**Precautionary Statements:**

|           |                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------|
| P264      | Wash hands and face thoroughly after handling.                                                                 |
| P270      | Do not eat, drink or smoke when using this product.                                                            |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.                                               |
| P330      | Rinse mouth.                                                                                                   |
| P501      | Dispose of contents and container in accordance with local, regional, national, and international regulations. |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT        | % MIN | % MAX | CAS #     | EINECS# / ELINCS# | FORMULA             | MOLECULAR WEIGHT |
|------------------|-------|-------|-----------|-------------------|---------------------|------------------|
| Sodium Bisulfite | 40    | 40    | 7631-90-5 | 231-548-0         | HNaO <sub>3</sub> S | 104.06 g/mol     |
| Water            | 60    | 60    | 7732-18-5 | 231-791-2         | H <sub>2</sub> O    | 18.02 g/mol      |

### 4. FIRST-AID MEASURES

|                   |                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Eye: IRRIGATE IMMEDIATELY - If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. |
| <b>Skin</b>       | Rinse skin with plenty of water or shower.                                                                                                                                                                          |
| <b>Inhalation</b> | Breathing: FRESH AIR - If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary.                                                   |

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| Ingestion | Swallow: MEDICAL ATTENTION IMMEDIATELY - If this chemical has been swallowed, get medical attention immediately. (NIOSH, 2024) |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|

## 5. FIRE-FIGHTING MEASURES

|                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| Suitable Media       | Dry chemical, CO2, water spray. Use water spray to cool containers.   |
| Unsuitable Media     | Do not use a solid water stream as it may scatter and spread fire.    |
| Protective Equipment | Wear self-contained breathing apparatus and full protective clothing. |
| Combustion Products  | May include carbon oxides and other toxic fumes. See Section 10.      |

## 6. ACCIDENTAL RELEASE MEASURES

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Personal Precautions  | Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.       |
| Environmental         | Prevent leakage or spillage from entering drains, sewers, or waterways.                                 |
| Containment & Cleanup | Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations. |

## 7. HANDLING AND STORAGE

|               |                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe Handling | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.                      |
| Safe Storage  | Store in a cool, dry, well-ventilated area. Use corrosion-resistant containers. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

**Occupational Exposure Limits:**

No established occupational exposure limits.

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| Eyes       | Wear chemical safety goggles or face shield.                                        |
| Skin       | Wear chemical-resistant gloves and protective clothing.                             |
| Inhalation | Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| Appearance               | Clear to pale yellow liquid                       |
| Odor                     | Slight sulfur dioxide odor                        |
| Particle Characteristics | Not Applicable                                    |
| pH                       | 3.5-5.0                                           |
| Melting Point            | Not characterized for the 40% solution            |
| Boiling Point            | Not characterized for the 40% solution            |
| Flash Point              | Non-flammable                                     |
| Vapor Pressure           | Not Available                                     |
| Specific Gravity         | 1.36                                              |
| Solubility               | Highly soluble in water, moderate alcohol soluble |
| Molecular Formula        | HNaO <sub>3</sub> S                               |
| Molecular Weight         | 104.06 g/mol                                      |

## 10. STABILITY AND REACTIVITY

|                    |                                              |
|--------------------|----------------------------------------------|
| Chemical Stability | Stable under recommended storage conditions. |
|--------------------|----------------------------------------------|

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| <b>Hazardous Reactions</b>    | None under normal processing conditions.                                          |
| <b>Conditions to Avoid</b>    | Heat, sparks, open flame, and incompatible materials.                             |
| <b>Incompatible Materials</b> | Strong acids, strong bases, reactive metals, water (for some concentrated forms). |
| <b>Decomposition Products</b> | May produce carbon oxides and other toxic fumes when heated to decomposition.     |

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

|             |                           |
|-------------|---------------------------|
| <b>IARC</b> | Not listed as carcinogen. |
| <b>NTP</b>  | Not listed as carcinogen. |
| <b>OSHA</b> | Not listed as carcinogen. |

## 12. ECOLOGICAL INFORMATION

|                         |                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>      | Daphnia EC50: ~ 102 mg/L (100 h, Daphnia magna — 100-h toxicity threshold (non-standard window)); Fish LC50: 240 mg/L (96 h, Gambusia affinis, turbid water 17–22 °C) |
| <b>Persistence</b>      | Not persistent (inorganic; bisulfite oxidizes to sulfate); raises aquatic COD — Rapid biological decomposition (oxidizes to sulfate)                                  |
| <b>Bioaccumulation</b>  | Not Available                                                                                                                                                         |
| <b>Mobility in Soil</b> | Slight soil absorption/mobility                                                                                                                                       |

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

## 14. TRANSPORT INFORMATION

|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| <b>US DOT</b>           | UN2693, Bisulfites, aqueous solutions, n.o.s. (Sodium bisulfite), 8, PG III |
| <b>IMDG</b>             | UN2693, Bisulfites, aqueous solutions, n.o.s. (Sodium bisulfite), 8, PG III |
| <b>IATA/ICAO</b>        | UN2693, Bisulfites, aqueous solutions, n.o.s. (Sodium bisulfite), 8, PG III |
| <b>Marine Pollutant</b> | No                                                                          |

## 15. REGULATORY INFORMATION

|                           |                                           |
|---------------------------|-------------------------------------------|
| <b>TSCA Inventory</b>     | Listed.                                   |
| <b>SARA 313 (TRI)</b>     | Not listed.                               |
| <b>California Prop 65</b> | Not listed.                               |
| <b>SARA 311/312</b>       | See Section 2 for hazard classifications. |

Data retrieved as of — TSCA Inventory: 2026-07-30; SARA 313 (TRI): 2026-07-30; California Prop 65: 2026-07-30

## 16. OTHER INFORMATION

**Revision Date:** 07/30/2026

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