

Sodium Metabisulfite

- Technical Grade

Technical Grade

Standard

OSHA HCS 2024 · GHS Rev. 7

Reviewed

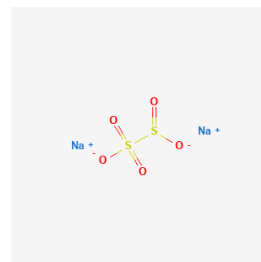
2026-07-17

Emergency

Chemtel 1-800-255-3924 (24/7)

CAS number

7681-57-4



Structure · PubChem

Grade

Technical Grade

Signal word

Danger

Hazards

Corrosive

Irritant / harmful

H302 H318

1 Identification

Product Identifier

Sodium Metabisulfite - Technical Grade

Grade

Technical Grade

CAS Number

7681-57-4

Manufacturer

Alliance Chemical

204 South Edmond Street, Taylor, TX 76574

Emergency Phone

Chemtel 1-800-255-3924 (24/7)

Recommended Use

Industrial / laboratory chemical. See Section 7.

2 Hazard Identification



Corrosive

Irritant /
harmful**Classification**

Acute toxicity (oral), Category 4

Serious eye damage/eye irritation, Category 1

Signal Word**Danger****Hazard Statements****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.**P280** Wear protective gloves, protective clothing, and eye/face protection.**P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P310** Immediately call a POISON CENTER or doctor.**P313** Get medical advice or attention.**P330** Rinse mouth.**P501** Dispose of contents and container in accordance with local, regional, national, and international regulations.

Classification, hazard (H) and precautionary (P) statements and pictograms per OSHA HCS 2024 (29 CFR 1910.1200, Appendices A–C), aligned with GHS Rev. 7.

3 Composition / Information on Ingredients

Component	CAS No.	Formula	Concentration
Sodium Metabisulfite	7681-57-4	Na ₂ O ₅ S ₂	99.5-100% (w/w)

Concentrations are nominal; lot-specific values appear on the Certificate of Analysis. Components not contributing to classification are omitted.

4 First-Aid Measures

Eyes	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.
Inhalation	Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.
Most Important Symptoms and Effects	Eye contact causes serious eye damage: pain, redness and corneal injury, which may be permanent. Ingestion may cause nausea, vomiting and abdominal pain; larger amounts may cause systemic poisoning.
Immediate Medical Attention and Special Treatment	Immediate medical attention is required after eye contact; eye damage may continue after exposure ends.

5 Fire-Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical, or CO ₂ . Use measures appropriate to local circumstances.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Specific Hazards Arising from the Chemical	Containers may rupture when heated.
Protective Equipment	Wear self-contained breathing apparatus and full

Hazardous Combustion Products	protective clothing. May include carbon oxides and other toxic fumes. See Section 10.
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6 Accidental Release Measures

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	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. Keep away from incompatible materials (see Section 10). Keep containers tightly closed.

8 Exposure Controls / Personal Protection

Occupational Exposure Limits

Limit	Value
NIOSH REL	5 mg/m ³ TWA

Engineering Controls	Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.
Eye/Face Protection	Wear chemical safety goggles or face shield.

Skin Protection	Wear chemical-resistant gloves and protective clothing.
Respiratory Protection	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 & Chemical Properties

Appearance	Free flowing, white to slightly yellow, fine granular crystal having a characteristic odor of sulfur dioxide
Odor	In the presences of traces of water, it develops an odor of sulfur dioxide
Odor Threshold	No data available
pH	3.5 to 4.5
Melting Point / Freezing Point	greater than 302 °F (Decomposes) (NIOSH, 2024)
Boiling Point	Decomposes (NIOSH, 2024)
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Solubility	Clear and colourless solution
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Particle Characteristics	No data available
Density	1.4 (NIOSH, 2024) - Denser than water; will sink

Values shown reflect product-specific canonical data. Lot-specific ranges may vary; see the Certificate of Analysis for the shipped lot.

10 Stability and Reactivity

Reactivity	Not reactive under normal conditions of use and storage.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong oxidizing agents, strong acids, strong bases.
Hazardous Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11 Toxicological Information

See Section 2 for GHS hazard classification.

Likely Routes of Exposure	Inhalation, skin contact, eye contact, ingestion.
Symptoms	Eye contact causes serious eye damage: pain, redness and corneal injury, which may be permanent. Ingestion may cause nausea, vomiting and abdominal pain; larger amounts may cause systemic poisoning.
Delayed and Chronic Effects	No delayed or chronic effects identified beyond the classification in Section 2.
Numerical Measures of Toxicity	No data available

Carcinogen Classification

Agency	Status
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IARC	Group 3 — not classifiable as to its carcinogenicity to humans (Sodium metabisulfite; IARC agent: Metabisulfites, Vol. 54).
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NTP	Not listed as carcinogen.
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OSHA	Not listed as carcinogen.
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12 Ecological Information

Ecotoxicity	Fish LC50: 32 mg/L (96 h, <i>Lepomis macrochirus</i> , static 22 °C, pH 3.8–6.7 (oxygen scavenger; DO/pH-mediated); 95% CI 21–50 mg/L)
Persistence & Degradability	Not applicable (inorganic reducing agent; dissociates/oxidizes to sulfate, not bioaccumulative)
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available

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

Not regulated for transport under US DOT 49 CFR Subchapter C, IMDG, or IATA DGR.

15 Regulatory Information

Inventory / List	Status
California Proposition 65	Not listed
US EPA TSCA Active Inventory	Listed
EPCRA SARA 313 (TRI)	Not listed

SARA 311/312 hazard categories correspond to the GHS classification in Section 2. Data retrieved as of: California Proposition 65 2026-10-02; US EPA TSCA Active Inventory 2026-10-02; EPCRA SARA 313 (TRI) 2026-10-02.

16 Other Information

Revision Date	2026-10-07
Format	16-section format per OSHA HCS 2024 (29 CFR 1910.1200, Appendix D), aligned with GHS Rev. 7.

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