



# Holland Company

## LIQUID SODIUM BISULFITE

### Safety Data Sheet

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product/Chemical Name:** Liquid Sodium Bisulfite

**Chemical Family:** Bisulfites Aqueous

**General use:** Water treatment and manufacturing applications

**Company Information:**

Holland Company, Inc.  
153 Howland Avenue  
Adams, MA 01220 U.S.A.  
Phone: 413-743-1292

**Emergency Phone:**

Holland Company	1-800-639-9602
Chemtrac (USA)	1-800-424-9300
CANTUTEC (Canada)	1-613-996-6666

#### SECTION 2. HAZARDS IDENTIFICATION



**WARNING**

IRRITANT AVOID CONTACT



**WARNING**

MAY BE CORROSIVE TO SOME METALS

**Hazard Statements**

Irritating to eyes. Category 2

Fumes may be irritating to respiratory system. Category 3

May be irritating to skin. Category 2

May be harmful if ingested. Category 4

May be corrosive to some metals. Category 1

**Precautionary Statements**

Other Hazards: Contact with acids and oxidizers liberates hazardous fumes.

Unknown acute toxicity: No data available.



### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance:** Bisulfite sodium salt

**Product name:** Liquid Sodium Bisulfite

**CAS #:** 7631-90-5

**Impurities:** NA

### SECTION 4. FIRST AID MEASURES

**Inhalation:** Possible acute irritation. Remove from continued exposure.

Get immediate medical attention if difficulty with breathing occurs.

**Skin contact:** Possible acute irritation. Wash skin with water. Remove contaminated clothing - footwear.

If irritation develops get medical attention.

**Eye contact:** Acute irritation. Immediately rinse eyes with water for an extended period.

If irritation persists, get medical attention.

**Ingestion:** Possible acute irritation. If ingested DO NOT induce vomiting. Rinse mouth.

Seek medical attention if you feel unwell.

**Most important symptoms/effects, acute and delayed:**

Acute:

Inhalation: Irritation to respiratory system. May cause an allergic reaction in sulfite sensitive individuals.

Skin contact: May cause irritation. May cause an allergic reaction in sulfite sensitive individuals.

Eye contact: Causes serious irritation. May cause an allergic reaction in sulfite sensitive individuals.

Ingestion: May cause adverse effects. May cause an allergic reaction in sulfite sensitive individuals.

Delayed:

None expected under normal conditions of use.

**Indication of immediate medical attention and special treatment needed, if necessary.** If exposed or concerned, get medical advice and attention. Have product SDS or product data sheet at hand.

### SECTION 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Product is not flammable and will not burn.

Use water to cool and maintain integrity of containers.

**Unsuitable extinguishing media:**

None identified.

**Hazards:**

Negligible fire hazard.

In a fire when exposed to excessive heat product can decompose resulting in the formation of irritating and potentially toxic sulfur oxide fumes.

Exposure to products of decomposition during a fire may be hazardous to health.

**Protective equipment:**

In case of possible exposure to products of decomposition use appropriate self-contained or other approved respiratory protection.



## SECTION 6. ACCIDENTIAL RELEASE MEASURES

**General:** Site specific procedures to address accidental spills are necessary as dictated by facility design, location, staffing, containment structures, and regulatory requirements.

**Personal protection, protective equipment, and emergency services:** In the event of a spill clear unnecessary staff from spill area. Isolate area and restrict entry. Avoid contact with skin, eyes, and inhalation with spilled material. If direct contact with spilled material, fumes or mist is likely use appropriate protective equipment. For people with sulfite sensitivity product fumes may provoke an allergic reaction. Do not release into sewers or waterways.

**Methods and materials for containment and clean up:** Prevent further leakage or spillage if safe to do so. Maintain adequate ventilation. Manage spilled liquid using containment structures or inert materials to collect for reuse. Product not reused can be neutralized using a mild alkali such as soda ash or calcium carbonate (agricultural lime). Neutralized residue can be swept up or rinsing down with water and captured using absorbent materials in accordance with local, state, province, and federal regulations.

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin, eyes, and clothing. Avoid inhalation or ingestion. Do not eat, drink, take medication or smoke when direct contact is possible. Always thoroughly wash hands after leaving a work area where contact is possible or has occurred.

**Conditions for safe storage including any incompatibilities:** Store in covered tanks / containers in a secure area. Provide adequate ventilation and vent storage tanks away from work areas. Annually empty storage tanks to inspect and clean. Perform regular maintenance and cleaning of transfer systems. Have storage tanks, containers, and transfer systems properly labeled for contents. To accept deliveries, have procedures for determining quantity of product that can be unloaded into storage system. Use tanks, transfer lines, pumps valves and process instrumentation designed for this material using approved materials of construction. Some materials commonly used are FRP, plastic, Teflon®, and Stainless steel. Over time, common metals such as steel, iron, copper and aluminum will experience corrosion and their use should be avoided.

**Containment:** Product storage tanks should have a dedicated, liquid tight secondary containment system to minimize the possibility of a release to the environment or contact with incompatible chemicals / materials.

**Incompatible Chemicals:** Acids, oxidizers, common metals.

**Temperature for storage:** Preferred temperature range is 16°C-29°C (60°F-85°F). Temperatures outside of this range may affect product effectiveness and stability.

## SECTION 8. EXPOSURE CONTROL / PERSONNAL PROTECTION

**Exposure controls / personal protection:**

OSHA (TWA), ACGIH (TVL), NIOSH (REL)

5 mg/m<sup>3</sup> as dry sodium bisulfite

**Appropriate engineering controls:** Emergency eye wash stations and safety showers should be available. Ensure adequate ventilation.

**Individual protection measures:** To avoid direct contact use protective gloves, eye protection, full length shirts and pants.



## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid. Clear to slight haze, amber to colorless.

**Odor:** Pungent, sulfurous.

**Odor threshold:** Not determined.

**pH:** 3.0 - 5.0 @ 25°C (77°F)

**Freeze point approx.:** 7°C (45°F)

**Boiling point-range:** Not determined.

**Flash point:** NA

**Evaporation rate:** Similar to water.

**Flammability (liquid, solid, gas):** Not flammable.

**Upper/lower flammability or explosive limits:** NA

**Vapor pressure:** Not determined.

**Vapor density:** Not determined.

**Relative density (specific gravity):** 1.30 - 1.37 S.G. @ 21°C (70°F)

**Water Solubility:** Complete.

**Partial coefficient: n-octanol/water:** No information

**Auto ignition:** Not flammable.

**Decomposition temperature:** Not determined.

**Viscosity:** No data.

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions of use.

**Chemical stability:** Product is chemically stable under recommended storage and handling conditions.

**Possible hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Unaffected by static discharge, shock, or vibration.

**Incompatible materials:** Acids, Oxidizers, Common metals.

**Hazardous decomposition products:** None expected under normal conditions of use and storage.

## SECTION 11. TOXICOLOGY INFORMATION

**Information on likely routes of exposure:**

Inhalation, Ingestion, Skin, Eye.

**Acute exposure:** Inhalation: Not classified. Ingestion: Not classified. Skin: Not classified

**Immediate effects of exposure:**

Inhalation: May cause irritation.

Ingestion: May cause discomfort.

Skin: May irritate skin.

Eyes: Will cause irritation.

Mucous membranes: May cause irritation.

Numeric toxicity: In rats LD(50) > 5,000mg/kg as liquid sodium bisulfite (2g/kg dry sodium bisulfite).

**Chronic effects of exposure:** None expected under normal conditions of use.

**Carcinogenicity:** NTP Not listed. IARC Not listed. OSHA Not listed.

**Reproductive toxicity, germ cell mutagenic or teratogenic effects:** Not classified.



## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** An environmental hazard cannot be excluded in the event of incorrect or unprofessional handling, use and disposal of unused material.

**Aquatic:** May be harmful to aquatic life. High concentrations in water can cause a temporary reduction of oxygen levels in aquatic environments.

Reported EC50 119mg/l (48 hours Daphnia magna) as dry sodium bisulfite.

**Terrestrial:** No information.

**Persistence and degradability:** Not determined. **Bioaccumulation potential:** Not determined.

**Mobility in Soil:** No information **Other adverse effects:** Not determined.

## SECTION 13. DISPOSAL CONSIDERATIONS

**RCRA Hazardous waste:** Unused material is not listed as a hazardous waste.

**Disposal recommendations:** Waste material and packaging must be disposed of in accordance with local, state, province, and federal regulations.

## SECTION 14. TRANSPORTATION INFORMATION

**Note:** The shipping descriptions stated were made with certain assumptions when the SDS was prepared. See current shipping documents for the most up to date information.

**Land (DOT) UN number:** UN2693

**Shipping name:** Bisulfites, Aqueous N.O.S. (Liquid sodium bisulfite)

**Hazard class:** 8

**Packing group:** III

**Marine pollutant:** No

**Special precautions:** None known.

## SECTION 15. REGULATORY INFORMATION

**RCRA Hazardous waste:** Not Listed.

**CERCLA Hazardous substance:** Listed.

**CERCLA Reportable Quantity (RQ):** 5,000lbs dry basis, approx. 1,200 gallons liquid 38% SBS.

**SARA 311/312 Categories:** Acute (immediate) health effects.

**Sudden release of pressure hazard:** No

**Reactivity hazard:** No

**SARA 313 Toxic Chemical listing:** Not listed

**SARA Extremely hazardous substance (EHS):** Not listed.

**OSHA Air:** Not listed

**OSHA Special Regulated Substance:** Not listed

**United States TSCA Section Inventory Status:** Listed

**Canadian Domestic Substances List (DSL):** Listed.

**State - Province regulations:** Not determined.



Liquid Sodium Bisulfite

## SECTION 16. OTHER INFORMATION

**NSF International Certified** as meeting NSF/ANSI/CAN Standard 60 for Water Treatment Chemicals  
Maximum use (MUL) 60 mg/L.

**NFPA:** Health 2 Flammability 0 Stability 0 Instability 0      **Special Hazards** Not Determined  
**HMIS:** Health 2 Flammability 0 Stability 0 Physical Hazards 0      **Personal Protection** Not Determined

**Preparatory statement:** Disclaimer The information in this Safety Data Sheet (SDS) is believed to be accurate to the best of our knowledge, information, and belief as of the publication date. The information given is designed only as guidance for safe handling, use, storage, transport, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for the material when used in combination with any other materials or in any process, application unless specified in the text.

**Date Sources for the SDS:**

Literature, direct manufacturing experience, databases, practice, publications, own tests, regulations.

**Revision:** January 2022, replaces all earlier      **SDS ID:** Sodium Bisulfite



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