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## Section 01 Identification

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<b>Product Identifier</b>	Sodium Metabisulphite Solution Sodium Metabisulphite 10% Solution Sodium Metabisulphite 35% Solution
<b>Other Means of Identification</b>	Disodium disulphite; Sodium pyrosulphite;
<b>Product Use and Restrictions on Use</b>	Antioxidant, bleaching and disinfectant agent in textile, laundering, paper, and fermentation industries. Production of sulphur dioxide. Dechlorination.
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7  Phone: 800.387.7503 Fax: 888.281.8109 <a href="http://www.cleartech.ca">www.cleartech.ca</a>
<b>Prepared By</b>	ClearTech Industries Inc. technical writer
<b>24-Hour Emergency Phone</b>	306.664.2522

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## Section 02 Hazard Identification

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### Physical Hazards

**Corrosive to metals** Category 1

### Health Hazards

**Serious eye damage / eye irritation** Category 2

### Signal Word

**Warning**

### Hazard Statements

H290 May be corrosive to metals.

H319 Causes serious eye irritation.

### Pictograms



### Precautionary Statements

#### **Prevention**

P234 Keep only in original packaging.

P264 Wash affected body parts thoroughly after handling.

P280 Wear eye protection, face protection

## Response

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

P390 Absorb spillage to prevent material damage.

## Hazards Not Otherwise Classified

Contact with acids liberates toxic gas.

## Supplemental Information

Not available

## Section 03 Composition / Information on Ingredients

### Hazardous Ingredients:

Chemical name	Common name(s)	CAS number	Concentration (w/w%)
Disodium disulphite	Sodium metabisulphite	7681-57-4	9-36%

## Section 04 First-Aid Measures

### Description of necessary first-aid measures

**Inhalation** Get medical advice / attention if you feel unwell or are concerned.

**Ingestion** Get medical advice / attention if you feel unwell or are concerned.

**Skin contact** Rinse skin with lukewarm, gently flowing water / shower for 5 minutes or until product is removed. If skin irritation occurs or if you feel unwell: Get medical advice / attention.

**Eye contact** Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15 to 20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice / attention.

### Most important symptoms and effects, both acute and delayed

**Inhalation** May cause respiratory irritation. Contact with acids, heat or sunlight releases sulphur dioxide, which causes serious respiratory irritation and is toxic if inhaled.

**Ingestion** May cause discomfort or nausea. This product may provoke a response in those who are sensitive to sulphites.

**Skin contact** This product may provoke a response in those who are sensitive to sulphites.

**Eye contact** Causes serious eye irritation.

**Further information** For further information see Section 11 Toxicological Information.

## Section 05 Fire Fighting Measures

**Suitable extinguishing media** Extinguish fire using extinguishing agents suitable for the surrounding fire.

**Unsuitable extinguishing media** Water jets are not recommended in fires involving chemicals.

**Specific hazards arising from the chemical** In the event of a fire oxides of sulphur may be released. Thermal decomposition occurs at 150 °C.

**Special protective equipment for fire-fighters** Wear NIOSH-approved self-contained breathing apparatus and chemical-protective clothing.

## Section 06 Accidental Release Measures

<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area. Do not use material handling equipment with exposed metal surfaces.
<b>Environmental Precautions</b>	Prevent material from entering waterways, sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.
<b>Methods and Materials for Containment and Cleaning Up</b>	SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. Use vented containers to avoid pressure buildup. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

## Section 07 Handling and Storage

<b>Precautions for Safe Handling</b>	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.
<b>Conditions for Safe Storage</b>	Store in a cool, dry, well-ventilated area, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible. Do not transfer to metal containers.
<b>Incompatibilities</b>	Acids, such as sulphuric, nitric, hydrochloric, phosphoric, fluosilicic (HFSA), sulphonic, acetic, citric, oxalic, and formic. Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids, hypochlorites and permanganates. Metals, such as aluminum, carbon steel, and brass.

## Section 08 Exposure Controls and Personal Protection

### Exposure limits

Component	Regulation	Type of listing	Value
Sulphur dioxide	ACGIH	TWA	2 ppm (5 mg/m <sup>3</sup> )
		STEL/Ceiling	5 ppm (13 mg/m <sup>3</sup> )

### Engineering controls

<b>Ventilation Requirements</b>	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
<b>Other</b>	An eye wash bottle or eye wash station should be available, tested, and be in close proximity to the product being handled in accordance with provincial regulations.

### Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

<b>Eye and face protection</b>	Where there is potential eye or face exposure, tightly fitting chemical goggles are recommended. Contact lenses are not recommended; they may contribute to severe eye injury.
<b>Hand and body protection</b>	Where handling this product it is recommended that skin contact is avoided.
<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.

### **NIOSH respirator recommendations for: Sulphur dioxide**

#### **Up to: 20 ppm**

(APF = 10) Any chemical cartridge respirator with cartridge(s) providing protection against Sulphur dioxide

(APF = 10) Any supplied-air respirator

#### **Up to: 50 ppm**

(APF = 25) Any supplied-air respirator operated in a continuous-flow mode

(APF = 25) Any powered, air-purifying respirator with cartridge(s) providing protection against Sulphur dioxide

#### **Up to: 100 ppm**

(APF = 50) Any chemical cartridge respirator with a full facepiece and cartridge(s) providing protection against Sulphur dioxide

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Sulphur dioxide

(APF = 50) Any self-contained breathing apparatus with a full facepiece.

(APF = 50) Any supplied-air respirator with a full facepiece

#### **Emergency or planned entry into unknown concentrations or IDLH conditions:**

(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

#### **Escape:**

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Sulphur dioxide

**Thermal hazards** Not available

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## **Section 09 Physical and Chemical Properties**

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### Appearance

<b>Physical state</b>	Liquid
<b>Colour</b>	Clear, colourless to pale yellow
<b>Odour</b>	Pungent; sulphurous
<b>Odour threshold</b>	Not available

### Property

<b>pH</b>	3.5-5.0
<b>Melting point / freezing point</b>	Not available

<b>Initial boiling point and boiling range</b>	Not available
<b>Flash point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flammability</b>	Not applicable
<b>Upper flammable limit</b>	Not available
<b>Lower flammable limit</b>	Not available
<b>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Relative density</b>	Not applicable
<b>Solubility</b>	Soluble in water
<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	150 °C
<b>Viscosity</b>	Not available
<b>Specific gravity</b>	~1.40 g/mL (35%); ~1.08 g/mL (10%)
<b>Particle characteristics</b>	Not applicable
<b>Formula</b>	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>
<b>Molecular weight</b>	190.11 g/mol

## Section 10 Stability and Reactivity

<b>Reactivity</b>	May be corrosive to metals. Reacts with acids to form toxic and corrosive sulphur dioxide.
<b>Stability</b>	This product is stable if stored according to the recommendations in Section 07. Exposure to sunlight or high temperatures may cause the degradation of this product over time.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization is not known to occur.
<b>Conditions to avoid</b>	Avoid contact with incompatible materials. Do not heat.
<b>Incompatible materials</b>	Acids, such as sulphuric, nitric, hydrochloric, phosphoric, fluosilicic (HFSA), sulphonic, acetic, citric, oxalic, and formic. Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids, hypochlorites and permanganates. Metals, such as aluminum, carbon steel, and brass.
<b>Hazardous decomposition products</b>	Thermal decomposition may produce oxides of sulphur. Thermal decomposition occurs at 150 °C.

## Section 11 Toxicological Information

### Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Acute toxicity estimate (35%)	Oral	Rat	>3,000 mg/kg bw	
	Dermal	Rat	>5,000 mg/kg	

### Toxic Health Effect Summary

# Safety Data Sheet

Sodium Metabisulphite Solution  
ClearTech Industries Inc

<b>Chemical characteristics</b>	This chemical is a moderate reducing agent.
<b>Skin</b>	This product may provoke a response in those who are sensitive to sulphites.
<b>Ingestion</b>	May cause discomfort or nausea. This product may provoke a response in those who are sensitive to sulphites.
<b>Inhalation</b>	May cause respiratory irritation. Contact with acids, heat or sunlight releases sulphur dioxide, which causes serious respiratory irritation and is toxic if inhaled.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Sensitization</b>	This product may provoke a response in those who are sensitive to sulphites. Sodium metabisulphite was not found to be sensitizing in the standard skin sensitization test.
<b>Mutagenicity</b>	This product and its components at their listed concentration have no known mutagenic effects.
<b>Carcinogenicity</b>	ACGIH has classified sodium metabisulphite as category A4 - Not classifiable as a human carcinogen. IARC has classified sodium metabisulphite as group 3, not classifiable as to its carcinogenicity to humans.
<b>Reproductive toxicity</b>	This product and its components at their listed concentration have no known reproductive effects.
<b>Specific organ toxicity</b>	This product and its components at their listed concentration have no known effects on specific organs.
<b>Aspiration hazard</b>	Not available
<b>Synergistic materials</b>	Not available

## Section 12 Ecological Information

### Ecotoxicity

Component	Type	Species	Value	Exposure Time
Acute toxicity estimate (35%)	EC50	Daphnia	>100 mg/L	48 hours
	LC50	Fish	91 mg/L	96 hours
	EC50	Algae	>100 mg/L	72 hours

<b>Biodegradability</b>	The domestic substance list categorizes sodium metabisulphite as persistent.
<b>Bioaccumulation</b>	The domestic substance list categorizes sodium metabisulphite as non-bioaccumulative.
<b>Mobility</b>	This product is water soluble, is not predicted to adsorb to soil and may contaminate ground water.
<b>Other adverse effects</b>	Cemical oxygen demand (COD): 59 mg/g

## Section 13 Disposal Considerations

<b>Waste From Residues / Unused Products</b>	Dispose in accordance with all federal, provincial, and local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Do not remove label, follow label warnings even after the container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility.

## Section 14 Transport Information

<b>UN number</b>	UN2693
<b>UN proper shipping name and description</b>	BISULPHITES, AQUEOUS SOLUTION, N.O.S. (Sodium Metabisulphite)

<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	III
<b>Excepted quantities</b>	5 L
<b>Environmental hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
<b>Special precautions</b>	16 (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks).
<b>Transport in bulk</b>	ERAP index: not available  MARPOL 73/78 and IBC Code: This product is not listed in Chapter 17 of the IBC Code.
<b>Additional information</b>	Secure containers (full or empty) during shipment and ensure all caps, valves, or closures are secured in the closed position.

**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

## Section 15 Regulatory Information.

**NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

All components of this product appear on the domestic substance list.

## Section 16 Other Information

**Date of latest revision: May 31, 2022**

**Note:** The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

### **Attention: Receiver of the chemical goods / SDS coordinator**

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

### **References:**

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA

- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN