

Section 01 Identification

Product Identifier Sodium Metabisulphite Solution

Sodium Metabisulphite 10% Solution Sodium Metabisulphite 35% Solution

Other Means of Identification Disodium disulphite; Sodium pyrosulphite;

Product Use and Restrictions

on Use

Antioxidant, bleaching and disinfectant agent in textile, laundering, paper, and fermentation

industries. Production of sulphur dioxide. Dechlorination.

Initial Supplier Identifier ClearTech Industries Inc

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Prepared By ClearTech Industries Inc. technical writer

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Section 02 Hazard Identification

Physical Hazards

This product does not qualify for any physical hazard class under WHMIS 2015

Health Hazards

Serious eye damage / eye

irritation

Category 1

Signal Word

Danger

Hazard Statements

H318 Causes serious eye damage.

Pictograms



Precautionary Statements

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Prevention

P264 Wash affected body parts thoroughly after handling.

P280 Wear, eye protection, face protection

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Response

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P310 and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Not available

Section 03 Composition / Information on Ingredients

Hazardous Ingredients:

Chemical name Common name(s) **CAS** number Concentration (w/w%)

9-36% Disodium disulphite Sodium metabisulphite 7681-57-4

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 Rinse skin with lukewarm, gently flowing water / shower for 5 minutes or until product is removed. If skin

contact irritation occurs or if you feel unwell: Get medical advice / attention.

Eye Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing contact water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do.

Continue rinsing for 30 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the

face. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation. Contact with acids, heat or sunlight realeases sulphur dioxide, which

causes serious respiratory irritation and is toxic if inhaled.

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

sulphites.

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

Eve contact Causes serious eye damage.

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.

the chemical

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

150 °C.

for fire-fighters

Special protective equipment Wear NIOSH-approved self-contained breathing apparatus and chemical-protective

clothing.

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Section 06 Accidental Release Measures

Personal Precautions / **Protective Equipment / Emergency Procedures** Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area.

Environmental Precautions Prevent material from entering waterways, sewers or confined spaces. Notify local health

and wildlife officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning Up

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

Precautions for Safe Handling 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.

Conditions for Safe Storage 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.

Incompatibilities Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

Exposure to air or mosture accelerates decomposition.

Section 08 Exposure Controls and Personal Protection

Exposure limits

Component	Regulation	Type of listing	Value
Sodium metabisulphate	NIOSH	REL-TWA	5 mg/m³
	ACGIH	TWA	5 mg/m³

Engineering controls

Ventilation Requirements 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.

Other A soak hose and eyewash station or emergency shower and eyewash 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.

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Eye and face protection Where there is potential eye or face exposure, tightly fitting safety goggles and a face shield

> or a full face respirator or similar protective equipment which protects the wearer's face and eyes are recommended. Contact lenses are not recommended; they may contribute to

severe eye injury.

Hand and body protection

Where handling this product it is recommended that skin contact is avoided.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards Not available

Section 09 Physical and Chemical Properties

Appearance

Physical state Liquid

Colour Clear, colourless to pale yellow

Odour Pungent; sulphurous

Odour threshold Not available

Property

3.5-5.0 pН

Melting point / freezing point Not available

Initial boiling point and

boiling range

Not available

Flash point Not available **Evaporation rate** Not available **Flammability** Not applicable Upper flammable limit Not available Lower flammable limit Not available Vapour pressure Not available Vapour density Not available Relative density Not applicable

Solubility Partition coefficient: n-

Not available

Soluble in water

octanol/water

Auto-ignition temperature Not available 150 °C **Decomposition temperature**

Viscosity Not available

Specific gravity ~1.40 g/mL (35%); ~1.08 g/mL (10%)

Particle characteristics Not applicable

Formula Na₂S₂O₅ Molecular weight 190.11 g/mol

Section 10 Stability and Reactivity

Reactivity Reacts with acids to form toxic and corrosive sulphur dioxide.

Stability 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.

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Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

Conditions to avoid

Avoid contact with incompatible materials. Do not heat.

Incompatible materials

Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

Exposure to air or mosture accelerates decomposition.

Hazardous decomposition products

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

Chemical

This chemical is a moderate reducing agent.

characteristics

This product may provoke a response in those who are sensitive to sulphites. Not available

Ingestion

Skin

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

sulphites.

Inhalation

May cause respiratory irritation. Contact with acids, heat or sunlight realeases sulphur dioxide, which

causes serious respiratory irritation and is toxic if inhaled.

Eye contact

Causes serious eye damage.

Sensitization

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.

Mutagenicity

This product and its components at their listed concentration have no known mutagenic effects. ACGIH has classified sodium metabisulphite as category A4 - Not classifiable as a human

Carcinogenicity

carcinogen.

IARC has classified sodium metabisulphite as group 3, not classifiable as to its carcinogenicity to humans

Reproductive

toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ

toxicity

This product and its components at their listed concentration have no known effects on specific

organs.

Aspiration hazard

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Not available Not available

Synergistic materials

Section 12 Ecological Information

Ecotoxicity

Component	Туре	Species	Value	Exposure Time
Acute toxicity estimate (35%)	EC50	Daphnia	>100 mg/L	48 hours

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Component	Туре	Species	Value	Exposure Time
	LC50	Fish	91 mg/L	96 hours
	EC50	Algae	>100 mg/L	72 hours
Biodegradability	The domestic substance list categorizes all of the components of this product as persistent.			
Bioaccumulation	The domestic substance list categorizes all of the components of this product as non-bioaccumulative.			
Mobility	This product is water soluble, is not predicted to adsorb to soil and may contaminate ground water.			
Other adverse effects	Cemical oxygen den	nand (COD): 59 mg/g		

Section 13 Disposal Considerations

Waste From Residues / **Unused Products**

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging 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

UN number UN2693

UN proper shipping name

and description

BISULPHITES, AQUEOUS SOLUTION, N.O.S. (Sodium Metabisulphite)

Transport hazard class(es) 8 Ш Packing group **Excepted quantities** 5 L

Environmental hazards

Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special precautions 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).

Transport in bulk ERAP index: not available

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Additional information 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.

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

Section 16 Other Information

Date of latest revision: November 17, 2021

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

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