



# Safety Data Sheet

## Section 01 - Product And Company Identification

<b>Product Identifier</b>	Sodium Sulphite, Technical Grade Sodium Sulphite, Catalyzed
<b>Other Means of Identification</b>	Disodium sulfite, sodium sulfite
<b>Product Use and Restrictions on Use</b>	Bleach operations, reducing agent in the manufacture of dyes, photographic developers and fixers, food additive, water treatment dechlorinating agent.
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
<b>24-Hour Emergency Phone</b>	Phone: 1 (306) 664 – 2522

## Section 02 - Hazard Identification

### GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

## Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Sodium Sulfite	7757-83-7	97%	
Sodium Sulphate	7757-82-6	<3%	

## Section 04 - First Aid Measures

<b>Inhalation</b>	If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
<b>Skin Contact / Absorption</b>	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
<b>Eye Contact</b>	Immediately flush eye(s) with lukewarm, gently flowing water for 30 minutes while forcibly holding the eyelids open to ensure complete irrigation of the eye tissue. If irritation persists, seek medical attention.
<b>Ingestion</b>	Do not induce vomiting. If vomiting occurs, lean victim forward to prevent breathing in vomitus. Give two glasses of water. Do not give anything by mouth to an unconscious or convulsing person. Immediately call the local poison control center or hospital.
<b>Additional Information</b>	Not Available

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Use appropriate extinguishing agent suitable for surrounding fire.
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From the Chemical</b>	During a fire, irritating/toxic Sulphur oxides may be generated.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
<b>Further Information</b>	Not Available

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## Section 06 - Accidental Release Measures

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<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.
<b>Environmental Precautions</b>	Prevent material from entering sewers.
<b>Methods and Materials for Containment and Cleaning Up</b>	Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

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## Section 07 - Handling and Storage

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<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.
<b>Conditions for Safe Storage</b>	Store in a cool, dry area at temperatures below 27°C and away from acids or oxidizers. Keep container closed. Protect from physical damage.
<b>Incompatibilities</b>	Acids and strong oxidizers, high temperatures.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sulfur dioxide	OSHA	TWA	5ppm
	ACGIH	TLV	5ppm
	ACGIH	STEL	2ppm

### Engineering Control(s)

<b>Ventilation Requirements</b>	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must 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>	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

## **Protective Equipment**

<b>Eyes/Face</b>	No specific requirements, but it is good practice to wear chemical safety glasses while product is being handled.
<b>Hand Protection</b>	No specific requirement, but it is good practice to prevent skin contact with the use of gloves.
<b>Skin and Body Protection</b>	No specific requirement, but it is good practice to prevent skin contact. No special footwear is required other than what is mandated at place of work.
<b>Respiratory Protection</b>	A NIOSH/MSHA approved air-purifying respirator equipped with acid gas/fume, dust, and mist cartridges for concentrations up to 50mg /m <sup>3</sup> or 20ppm as sulfur dioxide. A powered air-purifying respirator with acid gas cartridges for up to 50ppm sulfur dioxide. A full-facepiece air-supplied respirator if concentrations are for up to and higher than 100ppm sulfur dioxide.
<b>Thermal Hazards</b>	Not Available

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

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### **Appearance**

<b>Physical State</b>	Solid, crystals or powder
<b>Colour</b>	White to pale yellow
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not Applicable

### **Property**

<b>pH</b>	~9
<b>Melting Point/Freezing Point</b>	~600°C
<b>Initial Boiling Point and Boiling Range</b>	Decomposes
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Available
<b>Flammability</b>	Non-Flammable
<b>Upper Flammable Limit</b>	Not Applicable
<b>Lower Flammable Limit</b>	Not Applicable
<b>Vapour Pressure (mm Hg, 20°C)</b>	Not Available
<b>Vapour Density (Air=1)</b>	Not Available
<b>Relative Density</b>	Not Available
<b>Solubility(ies)</b>	Very soluble in water. Soluble in glycerol; almost insoluble in ethanol.

<b>Partition Coefficient: n-octanol/water</b>	Not Available
<b>Auto-ignition Temperature</b>	Not Applicable
<b>Decomposition Temperature</b>	600°C
<b>Viscosity</b>	Not Available
<b>Explosive Properties</b>	Non-Explosive
<b>Specific Gravity (Water=1)</b>	2.633
<b>% Volatiles by Volume</b>	Not Available
<b>Formula</b>	Na <sub>2</sub> SO <sub>3</sub>
<b>Molecular Weight</b>	126.04

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## Section 10 - Stability and Reactivity

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<b>Reactivity</b>	Not Available
<b>Stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	Polymerization will not occur.
<b>Conditions to Avoid</b>	Air contact, heat, moisture, incompatible materials.
<b>Incompatible Materials</b>	Acids and strong oxidizers.
<b>Hazardous Decomposition Products</b>	Reaction with acids release sulfur dioxide gas. Sodium sulphide residue forms when product decomposes.

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## Section 11 - Toxicological Information

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### Acute Toxicity

Component	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Sodium Sulfite	820mg/kg (mouse) 3560mg/kg (rat)	Not Available	>5500mg/m <sup>3</sup> (rat, 4hr)

### Chronic Toxicity – Carcinogenicity

Component	IARC
Sodium Sulfite	Group 3: Not classifiable as to its carcinogenicity to humans

<b>Skin Corrosion/Irritation</b>	Non-irritant
<b>Ingestion</b>	Ingestion may irritate the gastrointestinal tract.
<b>Inhalation</b>	Product is irritating to nose, throat and respiratory tract.
<b>Serious Eye Damage/Irritation</b>	Non-irritant.
<b>Respiratory or Skin Sensitization</b>	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

<b>Germ Cell Mutagenicity</b>	Sodium sulfite has been demonstrated to be mutagenic in microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic threat to multicell organisms.
<b>Reproductive Toxicity</b>	Not Available
<b>STOT-Single Exposure</b>	May cause respiratory irritation.
<b>STOT-Repeated Exposure</b>	May cause damage to the following organs: peripheral nervous system, central nervous system (CNS).
<b>Aspiration Hazard</b>	Prolonged or repeated inhalation may cause chronic irritation, inflammation, delayed pulmonary edema, and alteration of sense of smell and taste.
<b>Synergistic Materials</b>	Not Available

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## Section 12 – Ecological Information

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### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Sodium Sulfite	EC <sub>50</sub> (Algae, 96hr): 63-126mg/L	LC <sub>50</sub> (Gambusia affinis, 96hr): 660mg/L	LC <sub>50</sub> (Daphnia magna, 48hr): 118mg/L
<b>Biodegradability</b>	Product rapidly biodegrades.		
<b>Bioaccumulation</b>	Bioaccumulation is not expected to occur.		
<b>Mobility</b>	Not Available		
<b>Other Adverse Effects</b>	This product possesses properties indicating a toxicity hazard to aquatic plants.		

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## Section 13 – Disposal Considerations

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<b>Waste From Residues/Unused Products</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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## Section 14 – Transport Information

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<b>UN Number</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>Transport Hazard Class(es)</b>	Not Regulated
<b>Packaging Group</b>	Not Regulated
<b>Environmental Hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
<b>Special Precautions</b>	Not Available
<b>Transport in Bulk</b>	Not Available

### TDG

<b>Other</b>	Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.
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**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

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## Section 15 – Regulatory Information

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

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## Section 16 – Other Information

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**Preparation Date** August 13, 2015

**Note:** The responsibility to provide a safe workplace remains with the user. The 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 user to comply with all applicable laws and regulations.

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

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution<sup>®</sup> 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) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) PAN
- 6) HSDB
- 7) ECHA

### **ClearTech Industries Inc. - Locations**

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