



Section 01 - Product And Company Identification

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

Section 02 - Hazard Identification

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|---|-------------|
| GHS-Classification | |
| Acute Toxicity-Oral | Category 4 |
| Acute Toxicity-Inhalation | Category 5 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2A |
| Respiratory and Skin Sensitization | Category 1 |
| STOT-Single Exposure | Category 3 |
| Aspiration Hazard | Category 2 |



Signal Word

Warning

Hazard Statements

Harmful if swallowed.
 May be harmful if inhaled.
 Causes skin irritation.
 Causes eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 May cause respiratory irritation.
 May be harmful if swallowed and enters airways.

Physical Hazards

No known physical hazards.

Pictograms**Precautionary Statements**

Do not eat, drink or smoke when using this product.
 Wash thoroughly after handling.
 Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.
 Avoid breathing dust/fume/ gas/mist/vapours/spray.
 Contaminated work clothing should not be allowed out of the workplace.
 In case of inadequate ventilation wear respiratory protection.
 Use only outdoors or in well-ventilated area.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
 If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.
 IF ON SKIN: Wash with plenty of soap and water.
 Take off contaminated clothing and wash before re-use.
 If skin irritation or rash occurs, seek medical advice/attention.
 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/attention.
 Wash hands after handling.
 Store locked up.
 Store container tightly closed in well-ventilated place.

Section 03 - Composition / Information on Ingredients

| Chemical Name | CAS Number | Weight % | Unique Identifiers |
|--------------------------------------|------------|----------|--------------------|
| Technical: Sodium Sulphite | 7757-83-7 | 97% | |

| | | |
|-------------------|------------|-------|
| Sodium Sulphate | 7757-82-6 | <3% |
| Catalyzed: | | |
| Sodium Sulphite | 7757-83-7 | >95% |
| Sodium Sulphate | 7757-82-6 | <2% |
| Cobalt Sulphate | 10124-43-3 | 0.04% |

Common Name and Synonyms Disodium sulfite, sodium sulfite

Section 04 - First Aid Measures

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| Inhalation | Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention. |
| Skin Contact / Absorption | Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists. |
| Eye Contact | Contact lenses should never be worn when working with this product. Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention. |
| Ingestion | If conscious, immediately give 2 to 4 glasses of water or milk and induce vomiting under medical supervision. Get immediate medical attention. |
| Additional Information | Treat symptomatically. Note potential for anaphylactic shock with allergic individuals. |

Section 05 - Fire Fighting Measures

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| Suitable Extinguishing Media | Product does not burn. Where fire is involved, use any fire fighting agent appropriate for surrounding material; use water spray to cool fire-exposed surfaces. |
| Unsuitable Extinguishing Media | Not Available |
| Specific Hazards During Fire Fighting | During a fire, irritating/toxic sulphur oxides may be generated. |
| Special Protective Equipment for Fire-Fighters | Wear NIOSH-approved self-contained breathing apparatus and protective clothing. |
| Further Information | Not Available |

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so.

Environmental Precautions Prevent material from entering sewers.

Methods and Materials for Containment and Cleaning Up Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

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.

Conditions for Safe Storage Store in a cool, dry area and away from acids or oxidizers. Keep container closed. Protect from physical damage.

Incompatibilities Acids and strong oxidizers.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

| Component | Regulation | Type of Listing | Value |
|-----------------|-----------------|-----------------|----------------------|
| Sodium sulphite | Not Established | | |
| Sulphur dioxide | OSHA | TWA | 5ppm |
| | ACGIH | TLV | 5ppm |
| | ACGIH | STEL | 2ppm |
| Cobalt sulphate | OSHA | PEL | 0.1mg/m ³ |
| | ACGIH | TLV | 0.2mg/m ³ |

Engineering Control(s)

Ventilation Requirements 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.

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| Other | Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity. |
| Protective Equipment | |
| Eyes/Face | Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury. |
| Hand Protection | Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. |
| Skin and Body Protection | Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. |
| | Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work. |
| Respiratory Protection | If dusty conditions prevail use a dust mask approved by NIOSH. If sulphur dioxide should be released use a self-contained breathing apparatus. |
| Thermal Hazards | Not Available |

Section 09 - Physical and Chemical Properties

Appearance

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| Physical State | Solid |
| Colour | White to pale yellow crystals or powder |
| Odour | Odourless |
| Odour Threshold | Not Applicable |

Property

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| pH | 9.8 for a 5% solution |
| Melting Point/Freezing Point | Decomposes |
| Initial Boiling Point and Boiling Range | Not Applicable |
| Flash Point | Not Applicable |

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| Evaporation Rate | Not Applicable |
| Flammability | Non-Flammable |
| Upper Flammable Limit | Not Applicable |
| Lower Flammable Limit | Not Applicable |
| Vapour Pressure (mm Hg, 20°C) | Not Applicable |
| Vapour Density (Air=1) | Not Applicable |
| Relative Density | Not Available |
| Solubility(ies) | 17% w/w at 10°C, 28% w/w at 33°C in water |
| Partition Coefficient: n-octanol/water | Not Available |
| Auto-ignition Temperature | Not Applicable |
| Decomposition Temperature | 900°C |
| Viscosity | Not Available |
| Explosive Properties | Non-Explosive |
| Specific Gravity (Water=1) | 2.63 |
| % Volatiles by Volume | Not Applicable |
| Formula | Na ₂ SO ₃ |
| Molecular Weight | 126.04 |

Section 10 - Stability and Reactivity

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| Reactivity | Reaction with strong oxidizers cause vigorous exothermic reactions. Reaction with acids release sulfur dioxide gas. Sodium sulphide residue forms when product decomposes. |
| Stability | Stable under normal conditions. |

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| Possibility of Hazardous Reactions | Hazardous polymerization will not occur. Toxic gas is formed with acid contact. |
| Conditions to Avoid | Air contact, heat, moisture, incompatible materials. |
| Incompatible Materials | Acids and strong oxidizers. |
| Hazardous Decomposition Products | Sulphur dioxide gas, sodium sulphide. |

Section 11 - Toxicological Information

Acute Toxicity

| Component | Oral LD ₅₀ | Dermal LD ₅₀ | LC ₅₀ |
|-----------------|-------------------------------------|-------------------------|--|
| Sodium Sulphite | 820mg/kg (mouse) 3560mg/kg (rat) | Not Available | 5500mg/m ³ (rat, inhalation, 4hr) |
| Sodium Sulphate | 5989mg/kg (mouse) | Not Available | Not Available |
| Cobalt Sulphate | 424mg/kg (rat) | Not Available | Not Available |

Chronic Toxicity – Carcinogenicity

| Component | IARC |
|-----------------|--|
| Sodium sulphite | Group 3: Not classifiable as to its carcinogenicity to humans. |
| Sodium sulphate | Group 3: Not classifiable as to its carcinogenicity to humans. |
| Cobalt sulphate | Group 2B: Possibly carcinogenic to humans. |

Skin Corrosion/Irritation Dust may cause skin irritation from prolonged contact. Solutions will irritate skin.

Serious Eye Damage/Irritation Dust may irritate or burn eyes. Solutions will irritate or burn eyes.

Ingestion Ingestion may irritate gastrointestinal tract. May cause severe allergic reaction in some asthmatics and sulphite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression and even death.

Inhalation Inhalation of dust may irritate respiratory tract.

Respiratory or Skin Sensitization May cause allergic skin and respiratory sensitization reactions.

Germ Cell Mutagenicity 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 multicellular organisms.

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| Reproductive Toxicity | Not Available |
| STOT-Single Exposure | Inhalation of dust may irritate respiratory tract. |
| STOT-Repeated Exposure | May cause damage to the following organs: peripheral nervous system, central nervous system (CNS). |
| Aspiration Hazard | Prolonged or repeated inhalation may cause chronic irritation, inflammation, delayed pulmonary edema, and alteration of sense of smell and taste. |
| Synergistic Materials | Not Available |

Section 12 - Ecological Information

| Ecotoxicity | | | |
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| Component | Toxicity to Algae | Toxicity to Fish | Toxicity to Daphnia and Other Aquatic Invertebrates |
| Sodium Sulphite | Not Available | LC ₅₀ (Western Mosquito fish, 96 hour): 660mg/L | LC ₅₀ (Daphnia magna, 48 hour): 440ppm |
| Sodium Sulphate | Not Available | LC ₅₀ (Fathead minnow, 96 hour): 13500-14000mg/L | LC ₅₀ (Daphnia magna, 48 hour): 2564ppm |
| Biodegradability | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are less toxic than the product itself. | | |
| Bioaccumulation | Bioaccumulation is not expected to occur. | | |
| Mobility | Not Available | | |
| Other Adverse Effects | Not Available | | |

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

UN Number Not Regulated

UN Proper Shipping Name Not Regulated

Transport Hazard Class(es) Not Regulated

Packaging Group Not Regulated

Environmental Hazards

Special Precautions

Transport in Bulk

TDG

Other 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.

PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 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.

Section 15 - Regulatory Information

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.

Section 16 - Other Information

Preparation Date July 21, 2014

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[®] 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 or technical service department.

Abbreviations

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AIHA | American Industrial Hygiene Association |
| CAS | Chemical Abstract Service |
| DSL | Domestic Substance List |
| EC | Effective Concentration |
| IARC | International Agency for Research on Cancer |
| IDHL | International Digest of Health Legislation |
| LC | Lethal Concentration |
| LD | Lethal Dosage |
| MSHA | Mine Safety and Health Administration |
| NIOSH | National Institute for Occupational Safety and Health |
| NFPA | National Fire Protection Association |
| NTP | National Toxicology Program (U.S.A.) |
| OSHA | Occupational Safety and Health Administration (U.S.A.) |
| PEL | Permissible Exposure Limit |
| PPE | Personal Protection Equipment |
| STEL | Short-term Exposure Limit |
| STOT | Specific Target Organ Systemic Toxicity |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| UN | United Nations |
| WEEL | Workplace Environmental Exposure Level |
| WHMIS | Workplace Hazardous Materials Information System |

References

- 1) *CHEMINFO: Sodium sulfate*. (2014). Retrieved from Canadian Centre for Occupational Health and Safety: <http://ccinfoweb2.ccohs.ca/cheminfo/records/4028E.html>
- 2) *CHEMINFO: Sodium sulfite*. (2014). Retrieved from Canadian Centre for Occupational Health and Safety: <http://ccinfoweb2.ccohs.ca/cheminfo/records/3422E.html>
- 3) Sigma-Aldrich. (2012, April 27). Material Safety Data Sheet: Sodium sulfite. Oakville, ON. Retrieved from Sigma-Aldrich.
- 4) U.S. National Library of Medicine. (2002). *Sodium sulfite*. Retrieved from TOXNET: <http://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~VzDcCy:1>

ClearTech Industries Inc. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7

Phone: 1(306) 664 – 2522

Alternative Phone: 1(800) 387-7503

Fax: 1(888) 281-8109

www.ClearTech.ca

| Location | Address | Postal Code | Phone Number |
|----------------|---------------------|-------------|----------------|
| Richmond, B.C. | 12431 Horseshoe Way | V7A 4X6 | 1(800)387-7503 |



| | | | |
|----------------------|-----------------------------------|---------|----------------|
| Port Coquitlam, B.C. | 223 Kingsway Avenue | V3C 1S9 | 1(800)387-7503 |
| Calgary, AB. | 5516E - 40 th St. S.E. | T2C 2A1 | 1(800)387-7503 |
| Edmonton, AB. | 12020 - 142 nd Street | T5L 2G8 | 1(800)387-7503 |
| Saskatoon, SK. | North Corman Industrial Park | S7K 1V7 | 1(800)387-7503 |
| Regina, SK. | 555 Henderson Drive | S42 5X2 | 1(800)387-7503 |
| Winnipeg, MB. | 340 Saulteaux Crescent | R3J 3T2 | 1(800)387-7503 |
| Mississauga, ON. | 355 Admiral Blvd Unit #1 | L5T 2N1 | 1(800)387-7503 |

**24 Hour Emergency Number - All Locations – 1(306) 664-2522
Alternative - 1(800) 387-7503**

End of Safety Data Sheet

