

MATERIAL SAFETY DATA SHEET

Sodium Metabisulphite

Section 01 - Chemical And Product And Company Information

Product Identifier Sodium metabisulphite

Product Use Antioxidant, bleaching and disinfectant agent in textile, laundering,

paper, and fermentation industries.

2302 Hanselman Avenue Saskatoon, SK. Canada

S7L 5Z3

Prepared By...... ClearTech Industries Inc. Technical Department

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Preparation Date...... October 12, 2011



Section 02 - Composition / Information on Ingredients

Hazardous Ingredients......Sodium metabisulphite 100%

CAS Number...... Sodium metabisulphite 7681-57-4

Synonym (s)......Sodium metabisulphite, anhydrous sodium bisulphite, sodium

pyrosulphite, disodium disulphite



Section 03 - Hazard Identification

Inhalation...... Contact with acids, water and/or ice, releases sulphur dioxide gas which

may be harmful or deadly if inhaled. May cause severe or deadly allergic reactions in some asthmatics and sulphite sensitive individuals. Inhalation of dust or mist can irritate the respiratory tract. Possible signs and symptoms of allergic reaction include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure, and

anaphylaxis

Skin Contact / Absorption........... Repeat or prolonged contact with dust may cause irritation. Contact with

solution will irritate.

colic, diarrhea, and depression. May cause severe or deadly allergic reaction in some asthmatics and sulphite-sensitive individuals.

Exposure Limits...... ACGIH/TLV-TWA: 5mg/m³

NIOSH-TWA: 5mg/m³

Section 04 - First Aid Measures

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.

eyelids apart to ensure complete irrigation of eye tissue. Seek immediate

medical attention

mouth to an unconscious person or convulsing person. Seek immediate

medical attention.

Additional Information...... Not available

Section 05 - Fire Fighting

Conditions of Flammability...... Non-flammable



Means of Extinction...... Product does not burn. When fire is involved, use any fire-fighting agent

appropriate for surrounding material; use water spray to cool fire-exposed

surfaces.

Flash Point...... Not available

Auto-ignition Temperature..... Not available

Upper Flammable Limit Not available

Lower Flammable Limit...... Not available

Hazardous Combustible Products... When decomposed, sodium sulphide residue is produced, which is a

dangerous fire risk, a strong irritant to skin and tissue and incompatible

with acids.

Special Fire Fighting Procedures..... Wear NIOSH-approved self-contained breathing apparatus and

protective clothing.

Explosion Hazards...... Not available

Section 06 - Accidental Release Measures

Leak / Spill..... Sweep or shovel up with a minimum of dusting and place in empty closed

containers. Cautiously spray residue with plenty of water. Provide ventilation to clear sulphur dioxide fumes, which will be generated as a

result of water contact.

Deactivating Materials..... Dilute hydrogen peroxide

Section 07 - Handling and Storage

Handling Procedures...... 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.

and away from incompatible materials such as oxidizers and acids.



Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes...... 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.

Respiratory...... Respiratory protection is not normally required. If use creates vapours,

mists, or aerosols, then a NIOSH-approved respirator with a dust/mist

cartridge is recommended.

Gloves...... Impervious gloves of chemically resistant material (rubber or PVC) should

be worn at all times. Wash contaminated clothing and dry thoroughly

before reuse.

Clothing...... Body suits, aprons, and/or coveralls of chemical resistant material should

be worn at all times. Wash contaminated clothing and dry thoroughly

before reuse.

work.

Engineering Controls

Ventilation Requirements...... Mechanical ventilation (dilution or local exhaust), process or personnel

enclosure, and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Because of potential SO2 generation, installation of continuous monitoring, detection, and alarm systems is recommended.

Other..... Emergency shower and eyewash should be in close proximity.

Section 09 - Physical and Chemical Properties

Physical State..... Solid

Odor and Appearance...... White solid, pungent sulphur dioxide odor.

Odor Threshold...... Not available

Specific Gravity (Water=1)...... 1.48

Vapor Pressure (mm Hg, 20C)....... Not available

Vapor Density (Air=1)..... Not available



Evaporation Rate...... Not available

Boiling Point...... Not applicable

Freeze/Melting Point..... Decomposes above 150°C

pH... 4.0-4.6 (1% solution)

Water/Oil Distribution Coefficient.... Not available

Bulk Density...... 1.40-1.45kg/cm³

% Volatiles by Volume...... Not available

Solubility in Water..... Very soluble

Molecular Formula..... Na₂S₂O₅

Molecular Weight...... 190.11

Section 10 - Stability and Reactivity

Incompatibility...... Moisture sensitive. Oxidizers may cause strong exothermic reaction.

Acids, water, and ice yield sulphur dioxide gas, which is toxic, corrosive and potentially deadly. Temperatures above 150 ℃ cause

evolution of sulphur dioxide gas.

Hazardous Products of Decomposition.. Decomposes to form sulphur dioxide gas which is toxic and

corrosive(see above comments) and sodium sulphide residue which is flammable, dangerous fire risk, a strong irritant to skin and tissue

and incompatible with acids.

Polymerization...... Will not occur.

Section 11 - Toxicological Information

Irritancy...... Sodium sulphide residue is a strong irritant.

allergic reactions if inhaled or in some asthmatics or sulphide sensitive

individuals.



Synergistic Materials..... Not available

Animal Toxicity Data..... LD₅₀(oral, rat): 1131mg/kg

LD₅₀(dermal, guinea pig): > 1000mg/kg

Carcinogenicity...... Not considered to be carcinogenic (NTP, OSHA, IARC, ACGIH).

Reproductive Toxicity...... May cause adverse reproductive effects based on animal test data.

Teratogenicity...... Not available

Section 12 - Ecological Information

Fish Toxicity...... LC₅₀(48 hrs, Rainbow Trout)= 100-200mg/L

Biodegradability...... Not available

Section 13 - Disposal Consideration

Waste Disposal...... Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transportation Information

TDG Classification

Group...... Not regulated

during shipment.

Section 15 - Regulatory Information

WHMIS Classification......D2



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

Section 16 - Other Information

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 / MSDS coordinator

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

ClearTech Industries Inc. - Locations

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Phone: 306-664-2522 Fax: 306-665-6216

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Location	Address	Postal Code	Phone Number	Fax Number
Richmond, B.C.	12431 Horseshoe Way	V7A 4X6	604-272-4000	604-272-4596
Calgary, AB.	5516E - 40 th St. S.E.	T2C 2A1	403-279-1096	403-236-0989
Edmonton, AB.	11750 - 180 th Street	T5S 1N7	780-452-6000	780-452-4600
Saskatoon, SK.	2302 Hanselman Avenue	S7L 5Z3	306-933-0177	306-933-3282
Regina, SK.	555 Henderson Drive	S42 5X2	306-721-7737	306-721-8611
Winnipeg, MB.	340 Saulteaux Crescent	R3J 3T2	204-987-9777	204-987-9770
Mississauga, ON.	7480 Bath Road	L4T 1L2	905-612-0566	905-612-0575

24 Hour Emergency Number - All Locations - 306-664-2522