



Safety Data Sheet

Section 01 - Identification

Product Identifier	Sodium Bisulphate Solid
Other Means of Identification	Sodium acid sulphate, GBS, globular sodium bisulphate, nitre cake, sodium hydrogen sulfate, sodium acid sulfate, and monosodium salt.
Product Use and Restrictions on Use	Industrial pH adjuster, activating acid in formulated dry-acid cleaners, and metal cleaning compounds, disinfectant.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

Serious Eye Damage/Irritation Category 1

Physical Hazards

No known physical hazards.

Danger

Hazards Statements

H318 – Causes serious eye damage.

Pictograms



Precautionary Statements

P280 – Wear eye protection and face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Sodium Bisulphate	7681-38-1	>90%	

Section 04 - First Aid Measures

Inhalation	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 if difficulty persists.
Skin Contact / Absorption	Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water and non-abrasive soap. Seek medical attention if irritation occurs or persists. Wash clothing before reuse or discard.
Eye Contact	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 30 minutes. Forcibly hold eyelids open to ensure complete irrigation of the eye tissue. Seek immediate medical attention.
Ingestion	Have victim rinse out mouth with water. Do not induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional Information	Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Unsuitable Extinguishing Media	Avoid contacting material with water as it readily dissolves to form a weak acid solution.
Specific Hazards Arising From the Chemical	During a fire, irritating/toxic sulfur oxides may be generated.
Special Protective Equipment and Precautions for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing. If water has to be used, wear acid protective equipment.
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. Flush with water to remove any residue.
Environmental Precautions	Prevent material from entering sewers.
Methods and Materials for Containment and Cleaning Up	Vacuum or shovel spilled material and place into disposal container. Dilute residual material with water and discharge as per local, provincial and/or federal regulations permit.

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.
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Conditions for Safe Storage Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from incompatible materials. Material is hygroscopic, do not store where moisture is present. Storage near strong alkalis must be avoided.

Incompatibilities Strong bases, hypochlorites and ammonium compounds.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium bisulphate	Not Established		

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.

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 respiratory should be worn at all times when product is being handled. Contact lenses should not be worn as they may contribute to severe eye injury.

Hand Protection Impervious gloves of chemically resistant material (rubber) should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Respiratory Protection If dust is being produced, a NIOSH-approved respiratory for dust should be worn.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Solid, powder

Colour Off-white

Odour Odourless

Odour Threshold Not Available

Property

pH 1.4 (0.1 M solution)

Melting Point/Freezing Point 315°C

Initial Boiling Point and Boiling Range Not Available

Flash Point	Not Available
Evaporation Rate	Not Available
Flammability	Non-flammable
Upper Flammable Limit	Not Available
Lower Flammable Limit	Not Available
Vapour Pressure (mm Hg, 20°C)	Not Available
Vapour Density (Air=1)	Not Applicable
Relative Density	1.281-1.361 g/cm ³
Solubility(ies)	Soluble in water. Decomposed by ethanol.
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	Not Available
Specific Gravity (Water=1)	2.435
% Volatiles by Volume	Not Available
Formula	NaHSO ₄
Molecular Weight	120.06

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Normally stable.
Possibility of Hazardous Reactions	Polymerization does not occur.
Conditions to Avoid	Will dissolve in water to form a weak sulphuric solution.
Incompatible Materials	Incompatible with strong bases, hypochlorites and ammonium compounds.
Hazardous Decomposition Products	Upon decomposition due to extreme heating, oxides of Sulphur may form. Reacts with strong bases to evolve heat. Reacts with hypochlorites to form poisonous chlorine gas.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Sodium bisulphate	2490mg/kg (rat)	Not Available	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
Sodium bisulphate	Not listed as carcinogenic (IARC and ACGIH)

Skin Corrosion/Irritation	Prolonged contact may result in skin irritation such as redness, pain and severe burns.
Ingestion	Small amounts are not likely to cause injury. Large amounts ingested can cause severe burns to the mouth, throat and stomach. Also may cause sore throat, vomiting and diarrhea.
Inhalation	Dust or mist inhalation may irritate nose, throat and lungs and may cause respiratory tract irritation and lung edema.
Serious Eye Damage/Irritation	Corrosive to eyes. Can cause serious eye damage.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
STOT-Single Exposure	Not Available
STOT-Repeated Exposure	Not Available
Aspiration Hazard	Not Available
Synergistic Materials	Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Sodium bisulphate	Not Available	Not Available	LC ₅₀ (Daphnia magna, 100hr): 105.5mg/L

Biodegradability	Material will decompose in soil. No adverse effects have been noticed when applied directly to crops.
Bioaccumulation	Low potential for bioaccumulation.
Mobility	Highly mobile in soils.
Other Adverse Effects	Product dissolves readily in water to form a weak acid, a 0.05% or greater (by weight) solution of this product is very likely to be harmful to aquatic life. Although material will decompose in soil, excessive quantities should not be applied.

Section 13 – Disposal Considerations

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	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

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.

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.

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 October 20, 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[®] 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) HSDB
- 6) ECHA

ClearTech Industries Inc. - Locations

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

Phone: 1(306) 664 – 2522

Fax: 1(888) 281-8109

www.cleartech.ca

24 Hour Emergency Number - All Locations – 1(306) 664-2522