

Section 01 Identification

Sodium Bisulphate Solid **Product Identifier**

> Sodium Bisulphate, Solid ClearTech pH Down

Other Means of Identification Sodium bisulfate, Sodium hydrogrensulphate, Sulphuric acid monosodium salt

Industrial pH adjuster, activating acid in formulated dry-acid cleaners, and metal cleaning

Product Use and Restrictions

compounds.

on Use

ClearTech Industries Inc.

Initial Supplier Identifier 1500 Quebec Avenue

Saskatoon, SK. Canada

S7K 1V7

Phone: 800.387.7503 Fax: 888.281.8109 www.cleartech.ca

Prepared By ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 306.664.2522

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

Category 1

irritation

Signal Word

Danger

Hazard Statements

H318 Causes serious eye damage.

Pictograms



Precautionary Statements

Prevention

P264 Wash affected body parts thoroughly after handling. P280 Wear protective gloves, eye protection, face protection.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: July 24, 2023

Page 1 of 7

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%)

Sulfuric acid, monosodium salt Sodium bisulphate 7681-38-1 >98%

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. May cause discomfort or nausea. Ingestion Skin contact May cause transient irritation. 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 Water jets are not recommended in fires involving chemicals. media

the chemical

for fire-fighters

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

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

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.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: July 24, 2023

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

Dry sweeping is not recommended. Pre-damping the material or use of a vacuum is preferred. Shovel into clean, dry, labeled containers and cover. Flush area with water.

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 Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Metals, such as aluminum, steel, and brass.

Section 08 Exposure Controls and Personal Protection

Exposure limits

There are no known exposure limits for this product.

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.

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

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522

Revision Date: July 24, 2023 Page 3 of 7

Physical state Solid

Colour White, to off white

Odour Odourless
Odour threshold Not available

Property

pH ~2 @ 10% Melting point / freezing point $315 \,^{\circ}\text{C}$

Initial boiling point and

boiling range

Not available

Flash point

Evaporation rate

Flammability

Upper flammable limit

Lower flammable limit

Vapour pressure

Vapour density

Not applicable

Not available

Not available

Not available

Not available

Relative density g/cm³

Solubility 28.5g/100 mL in water

Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperature Not available

Decomposition temperature 460 °C

Viscosity Not applicable Specific gravity Not applicable

Particle characteristics Particle size: Not available

Particle shape: Granular

Formula NaHSO₄
Molecular weight 120.06 g/mol

Section 10 Stability and Reactivity

Reactivity Reacts violently with bases.

Stability This product is stable if stored according to the recommendations in Section 07.

Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

Conditions to avoid Avoid contact with incompatible materials.

Incompatible materialsBases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Metals, such as aluminum, steel, and brass.

Hazardous decomposition

products

Thermal decomposition may produce oxides of sulphur.

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522

Revision Date: July 24, 2023

Component	Route	Species	Value	Exposure time
Sodium bisulphate	Oral	Rat	>2000 mg/kg bw	
	Inhalation	Rat	>2.4 mg/L	

Toxic Health Effect Summary

Chemical

No known effects

characteristics

Skin May cause transient irritation. Ingestion May cause discomfort or nausea. Inhalation May cause respiratory irritation. Eye contact Causes serious eye damage.

Sensitization This product and its components at their listed concentration have no known sensitizing effects. Mutagenicity This product and its components at their listed concentration have no known mutagenic effects. Carcinogenicity This product and its components at their listed concentration have no known carcinogenic effects.

Reproductive toxicity

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

Specific organ

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

toxicity

organs.

Aspiration hazard Synergistic

Not available Not available

materials

Section 12 Ecological Information

Ecotoxicity

Component	Type	Species	Value	Exposure Time
Acute toxicity estimate	LC50	Fish	>100 mg/L	96 hours
	EC50	Aquatic invertabrates	>100 mg/L	48 hours
	EC50	Algea	>1000 mg/L	72 hours

Biodegradability The domestic substance list categorizes sodium bisulphate as persistent.

Bioaccumulation The domestic substance list categorizes sodium bisulphate as non-bioaccumulative.

Mobility This product is water soluble, is not predicted to adsorb to soil and may contaminate ground

water.

Other adverse effects Not available

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.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: July 24, 2023 Page 5 of 7

Section 14 Transport Information

UN number This product does not meet the definition of dangerous goods per Part 2 of Transport of

Dangerous Goods Regulations

UN proper shipping name

and description

Not available

Transport hazard class(es)

Packing group

Not available

Excepted quantities

Not available

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

Special precautions

No special precautions

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.

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

Section 16 Other Information

Date of latest revision: July 24, 2023

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) NIOSH Pocket Guide to Chemical Hazards; U.S. Department of Health and Human Services, https://www.cdc.gov/niosh/npg/default.html

2) WorkSafe BC E-Limit; Workers' Compensation Foard of British Columbia, https://elimit.online.worksafebc.com/

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Page 6 of 7

- 3) ECHA Registered Substance Dossier; European Chemicals Agency, https://echa.europa.eu/registration-dossier/-/registered-dossier/14458
- 4) Transportation of Dangerous Goods Regulations; Transport Canada, https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/index.html
- 5) Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Seventh revised edition
- 6) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) 2007 Edition
- 7) The ACS Style Guide

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: July 24, 2023