

Section 01 Identification

Product Identifier Sodium Thiosulphate

Other Means of Identification Thiosulphuric acid, disodium salt; Disodium sulphate; Dechlor

Product Use and Restrictions

on Use

Bleaching agent; chlorine neutralization; reducing agent

Initial Supplier Identifier ClearTech Industries Inc.

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Prepared By ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 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.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Not available

Section 03 Composition / Information on Ingredients

Ingredients:

Chemical name Common name(s) CAS number Concentration (w/w%)

Thiosulfuric acid, disodium salt Sodium thiosulphate 7772-98-7 ≥97%

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.

EyeGently brush product off face. Do not rub eyes. Let the eyes water naturally for a few minutes. Look right and contact
left, then up and down. If particle / dust does not come out, cautiously rinse eye with lukewarm gently flowing

water for 5 minutes or until particle / dust is removed, while holding the eyelids open. If eye irritation persists:

Get medical advice / attention. Do not attempt to manually remove anything from the eyes.

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Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation. Ingestion May cause discomfort or nausea.

Skin contact Not available

Eve contact May cause eye irritation and redness.

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

media

Water jets are not recommended in fires involving chemicals.

the chemical

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

for fire-fighters

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

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.

Never return contaminated material to its original container.

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. Protect label and keep it visible.

Incompatibilities Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

Section 08 Exposure Controls and Personal Protection

Exposure limits

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Component	Regulation	Type of listing	Value
Fine dust	ECHA	TWA	4 mg/m³
Sulphur dioxide (emitted on contact with acids)	ACGIH	TWA	2 ppm
		STEL / Ceiling	5 ppm

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 No specific recommendations beyond the required hygiene facilities at the place of work.

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, safety glasses are recommended.

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

Physical state Powder Colour White Odour Odourless **Odour threshold** Not available

Property

pН 6.5-9.5 (10% solution)

Melting point / freezing point Decomposes Initial boiling point and Decomposes

boiling range

Flash point Not applicable Evaporation rate Not available Non-flammable Flammability Upper flammable limit Not available Lower flammable limit Not available Vapour pressure Not available Vapour density Not available

Solubility Soluble in water (764 g/mL @ 25 °C)

Partition coefficient: n-

octanol/water

Relative density

Not available

1.69 q/cm3

Auto-ignition temperature Not available

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Decomposition temperature 100 °C

Viscosity Not applicable Specific gravity Not applicable

Particle characteristics Particle size: Not available

Particle shape: Not available

Formula $Na_2S_2O_3$ Molecular weight 158.097 g/mol

Section 10 Stability and Reactivity

Reactivity Reacts violently with acids.

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 materials Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

Hazardous decomposition

products

Thermal decomposition may produce oxides of sulphur.

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Potassium thiosulphate (structurally similar)	Oral	Rat	>5000 mg/kg bw	
	Inhalation	Rat	>2.60 mg/L	4 hours
	Dermal	Rat	>2000 mg/kg bw	

Toxic Health Effect Summary

Chemical No known effects

characteristics

Skin Not available

IngestionMay cause discomfort or nausea.InhalationMay cause respiratory irritation.Eye contactMay cause eye irritation and redness.

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

Reproductive toxicity

Specific organ

toxicity

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

organs.

Aspiration hazard Not available

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Synergistic materials

Not available

Section 12 Ecological Information

Ecotoxicity

Component	Type	Species	Value	Exposure Time
Sodium thiosulphate	LC50	Freshwater fish	831 mg/L	72 hours
	EC50	Freshwater invertebrates	174 mg/L	48 hours
	EC10	Freshwater algae	>100 mg/L	72 hours

Biodegradability The domestic substance list categorizes sodium thiosulphate as persistent.

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

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

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.

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) Not available 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.

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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: May 29, 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/
- 3) ECHA Registered Substance Dossier; European Chemicals Agency, https://echa.europa.eu/registration-dossier/registered-dossier/14321
- 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

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