

Section 01 Identification

Initial Supplier Identifier

Product Identifier Sodium Hydrosulphite

Other Means of Identification Sodium dithionite; dithionous acid, disodium salt; sodium sulfoxylate; 7775-14-6

Product Use and Restrictions Vat dying of fibres and textiles; stripping agent for dyes; bleaching agent; oxygen

on Use scavenger for synthetic rubbers.

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Section 02 Hazard Identification

Physical Hazards

Self-heating substances and Category 1

mixtures

Health Hazards

Acute toxicity - oral Category 4

Serious eye damage / eye

irritation

Category 2

Signal Word

Danger

Hazard Statements

H251 Self-heating; may catch fire.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Pictograms



Precautionary Statements

Prevention

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P235 Keep cool.

P264 Wash affected body parts thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P280 Wear protective clothing, eye protection, face protection

Response

P301 P312 P330 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P337 P313 and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

P407 Maintain air gap between stacks or pallets.

P410 Protect from sunlight.P420 Store separately.

Disposal

P501 Dispose of contents / container in accordance with all federal, provincial and / or local regulations including the Canadian Environmental Protection Act.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Contact with acids liberates toxic gas.

Section 03 Composition / Information on Ingredients

Hazardous Ingredients:

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

Dithionous acid, disodium salt Sodium hydrosulphite 7775-14-6 85-100%

Section 04 First-Aid Measures

Description of necessary first-aid measures

Inhalation Get medical advice / attention if you feel unwell or are concerned.

Ingestion Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

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 water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do.

Continue rinsing for 15 to 20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto

the face. If eye irritation persists: Get medical advice / attention.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation.

Ingestion Harmful if swallowed.

Skin contact Not available

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Eye contact Causes serious eye irritation.

Further information For further information see Section 11 Toxicological Information.

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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 Self-heating; may catch fire. 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 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). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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, out of direct sunlight, away from heat sources and

> incompatible materials. Maintain air gap between stacks or pallets. Store separately. 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 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

Component Regulation Type of listing Value Sulphur dioxide **ACGIH TWA** 2 ppm STEL / Ceiling 5 ppm

Engineering controls

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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 An eye wash bottle or eye wash 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 chemical goggles 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

Physical state Solid crystalline powder

Colour White to yellow Odour Sulphurous Odour threshold Not available

Property

Not available pН

Melting point / freezing point Decomposes at 52 °C Initial boiling point and Decomposes at 52 °C

boiling range

Flash point Not applicable **Evaporation rate** Not available Flammability Non flammable Upper flammable limit Not available Lower flammable limit Not available Vapour pressure Not available Not available Vapour density Relative density 2.38 q/cm3

Solubility 241 g/L @ 20 °C in water

Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperature 140 °C **Decomposition temperature** 52°C

Viscosity Not applicable Specific gravity Not applicable

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Formula Na₂S₂O₄ Molecular weight 174.107 g/mol

Section 10 Stability and Reactivity

Reactivity Self-heating; may catch fire.

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	
Sodium hydrosulphite	Oral	Rat	2,500 mg/kg bw	2,500 mg/kg bw	
	Dermal	Rat	>2,000 mg/kg bw		
	Inhalation	Rat	>5.5 mg/L	4 hours	

Toxic Health Effect Summary

Chemical No known effects

characteristics

Not available Skin

Harmful if swallowed. Ingestion

Inhalation May cause respiratory irritation. Eve contact Causes serious eye irritation.

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

Reproductive toxicity

Specific organ toxicity organs.

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

Aspiration hazard Not available **Synergistic** Not available materials

Section 12 Ecological Information

Ecotoxicity

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Component	Туре	Species	Value	Exposure Time	
Sodium hydrosulphite	LC50	Fish	62.3 mg/L	96 hours	
	EC50	Aquatic invertabrates	98.3 mg/L	48 hours	
	EC50	Algea	206.2 mg/L	72 hours	
Biodegradability	The domestic substance list categorizes sodium hydrosulphite as persistent.				

Bioaccumulation The domestic substance list categorizes sodium hydrosulphite 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.

Section 14 Transport Information

UN number UN1384

UN proper shipping name

and description

SODIUM HYDROSULPHITE

Transport hazard class(es) 4.2 Packing group Ш

Excepted quantities

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

Special precautions No special provisions Transport in bulk ERAP index: 3,000 kg

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Secure containers (full or empty) during shipment and ensure all caps, valves, or closures Additional information

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.

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Section 16 Other Information

Date of latest revision: February 12, 2021

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) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN

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