

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Identifier: Sodium Sulphite, Catalyzed

Sodium Sulphite, Catalyzed Plus

Other Means of Identification:

Disodium sulfite, Sodium sulfite.

Product Use andBleach operations, reducing agent in the manufacture of dyes,

Restrictions on Use: photographic developers and fixers, food additive, water

treatment dechlorinating agent.

Recommended Use: Drilling Fluids Additive

Supplier: Bri-Chem Supply Ltd.

27075 Acheson Road Acheson, AB T7X 6B1

Phone Number: 780-962-9490

Emergency Phone: CHEMTREC 1-800-424-9300, 24/7

Section 2: HAZARD(S) IDENTIFICATION

Physical Hazards: This product does not qualify for any physical hazard class

under WHMIS 2015.

Health Hazards

Carcinogenicity: Category 1B

Signal Word: Danger

Hazard Statements

H350: May cause cancer by inhalation.

Pictograms:

Precautionary Statements

Prevention

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P280: Wear protective gloves, protective clothing, face protection

Response

P308, P313: If exposed or concerned: Get medical advice or attention.

Storage

P405: Store locked up



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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:

Contact with acids liberates toxic gas.

Supplemental Information: Not available

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical Name Common CAS Number Concentration (w/w%)

Name(s)

Sulphurous acid, disodium salt Sodium Sulphite 7757-83-7 >90%

Sulfuric acid, cobalt (2+) salt (1:1) Cobalt Sulphate 10124-43-3 0.01-0.1%

Section 4: FIRST-AID MEASURES

Description of Necessary First-Aid Measures

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

concerned. If exposed or concerned: Get medical advice /

attention.

Ingestion: Ingestion Get medical advice / attention if you feel unwell or

are concerned. If exposed or concerned: Get medical advice /

attention.

Skin Contact: Rinse skin with lukewarm, gently flowing water / shower for 5

minutes or until product is removed. If skin irritation occurs or if you feel unwell: Get medical advice / attention. If exposed or

concerned: Get medical advice / attention.

Eye Contact: Gently brush product off face. Do not rub eyes. Let the eyes

water naturally for a few minutes. Look right and 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.

Most Important Symptoms and Effects, both Acute and Delayed

Inhalation: May cause respiratory irritation. May cause cancer by

inhalation.

Ingestion: May cause discomfort or nausea.

Skin Contact: Not available

Eye Contact: May cause eye irritation and redness.



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Further Information: For further information see Section 11 Toxicological

Information.

Section 5: 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.

Specific Hazards Arising

from the Chemical:

In the event of a fire oxides of sulphur may be released.

Special Protective **Equipment for Fire-Fighters:** Wear NIOSH-approved self-contained breathing apparatus and

chemical-protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions. Protective Equipment, and **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 7: 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 place away from heat

> sources and incompatible materials. 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: 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.



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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

ComponentRegulationType of ListingValueCobalt and inorganic compounds, as Com TotalACGIHTWA0.02 mg/m³Sulphur dioxideACGIHTLV5 ppmACGIHSTEL2 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. 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. Disposable latex or nitrile gloves are recommended to prevent incidental contact. Butyl rubber, neoprene, or PVC skin protection is recommended for extended contact. Leather gloves are not recommended for chemical protection. Refer to manufacturer's specifications for breakthrough times and permeability information; note that breakthrough times and permeability vary with temperature, application and age of material. Continued use of contaminated safety gear or clothing is not recommended; wash before reuse

or discard.

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory

equipment.

Thermal Hazards: Not available



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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Powder or granules Colour: White to pale yellow

Odour: Odourless

Odour Threshold: Not applicable

Property

pH: ~8 @ 5% **Melting Point/Freezing Point:** ~600°C

Initial Boiling Point and

Upper Flammable Limit:

Boiling Range:

Decomposes

Not available

Flash Point: Not applicable **Evaporation Rate:** Not available

Flammability: Non-flammable

Lower Flammable Limit: Not available

Vapour Pressure: Not available Vapour Density: Not available

Relative Density: 2.63 g/cm³

Solubility: 17 g / 100 g water @ 10°C

Partition Coefficient: n-

octanol/water:

Not available

Auto-Ignition Temperature: Not available

Decomposition

Temperature:

600°C

Viscosity: Not applicable **Specific Gravity:** Not applicable

Particle Characteristics: Particle Size: Not available

Particle Shape: Not available

Formula: NA2SO3

Molecular Weight: 126.04 g/mol



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Section 10: STABILITY AND REACTIVITY

Reactivity: Reacts violently with acids.

Stability: This product is stable if stored according to the

recommendations in Section 07. Exposure to sunlight or high temperatures may cause the degradation of this product over

time.

Possibility of Hazardous

Reactions:

Reacts with acids to form toxic sulphur dioxide gas.

Conditions to Avoid: Avoid contact with incompatible materials. Do not heat.

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. Sulphur

dioxide and sodium sulphide.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity (LD50 / LC50 Values)

Component Route Species Value Exposure Time

Sodium Sulphite Oral Rat 3560 mg/kg

Inhalation Rat >5500 mg/m³ 4 Hours

Toxic Health Effect Summary

Chemical Characteristics: This product is a moderate reducing agent.

Skin: Some individuals may develop a skin allergy.

Ingestion: May cause discomfort or nausea.

Inhalation: May cause respiratory irritation. May cause cancer by

inhalation.

Eye Contact: May cause eye irritation and redness.

Sensitization: This product and its components at their listed concentration

have no known sensitizing effects.

Mutagenicity: Sodium sulfite has been demonstrated to be mutagenic in

microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic

threat to multi-cell organisms.

Carcinogenicity: NTP has classified cobalt sulphate as: Known to be a human

carcinogen. IARC has classified cobalt sulphate as group 2B,

possibly carcinogenic to humans.

Reproductive Toxicity: This product and its components at their listed concentration

have no known reproductive effects.



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Specific Organ Toxicity: This product and its components at their listed concentration

have no known effects on specific organs.

Aspiration Hazard: Not available Synergistic Materials: Not available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Component Species Value **Exposure Time Type**

Sodium Sulphite LC50 Daphnia Magna 440 mg/L 48 Hours

> LC50 Western mosquitofish 460 mg/L 96 Hours

Biodegradability: The domestic substance list categorizes sodium sulphite and

cobalt sulphate as persistent.

Bioaccumulation: The domestic substance list categorizes all of the components

of this product as nonbioaccumulative.

Mobility: This product is water soluble, is not predicted to adsorb to soil

and may contaminate ground water.

Other Adverse Effects: The domestic substance list categorizes cobalt sulphate as

inherently toxic to aquatic organisms.

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues /

Dispose in accordance with all federal, provincial, and local **Unused Products:**

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 provisions

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.



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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

References: 1) CHEMINFO

2) TOXNET

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

Disclaimer:

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Prepared by: Bri-Chem Supply Ltd. **Revision Date:** August 12, 2024