

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Sodium Hydrosulfite Powders and Blends

Product Code: V-BRITE; VIRWITE; VIRTEX; K-BRITE; HYDRO F. This SDS applies to Chemtrade's V-BRITE; VIRWITE and VIRTEX products using a 1-4 digit alphanumeric code (A through ZZZZ) or (1 - 9999) in any combination (e.g. V-BRITE B, VIRWITE CD, VIRTEX 123 or K-BRITE AZ22)

Synonyms: Sodium Dithionite; Hydro; Sodium Hydrosulfite Powder; Hydro Powder; Sodium Hydrosulfite Powders & Blends; Sodium Sulfoxylate; Dithionous Acid, Disodium Salt

1.2. Intended Use of the Product

Use of the substance/mixture: Reducing agent

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

CHEMTRADE LOGISTICS INC.

155 Gordon Baker Road

Suite 300

Toronto, Ontario M2H 3N5

For SDS Info: (416) 496-5856

www.chemtradelogistics.com

1.4. Emergency Telephone Number

Emergency Number : Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300 /
Chemtrade Emergency Contact: (866) 416-4404
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC –
Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Self-heat. 1 H251

Acute Tox. 4 (Oral) H302

Eye Dam. 1 H318

Aquatic Acute 3 H402

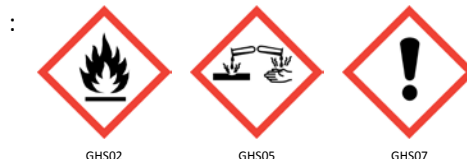
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H251 - Self-heating: may catch fire.

H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US)

: P235+P410 - Keep cool. Protect from sunlight.

P264 - Wash exposed areas. thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective clothing, protective gloves.

P301+P312 - If swallowed: 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 and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

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P330 - Rinse mouth.

P407 - Maintain air gap between stacks/pallets.

P413 - Store bulk masses at temperatures not exceeding 50°122°F.

P420 - Store away from other materials.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Sodium dithionite	(CAS No) 7775-14-6	60 - 95	Self-heat. 1, H251 Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Proprietary salt 1	Proprietary	0.1 - 25	Eye Irrit. 2A, H319
Proprietary salt 2	Proprietary	0.1 - 25	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Proprietary salt 3	Proprietary	0.1 - 20	Not classified
Proprietary salt 4	Proprietary	0.1 - 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 3, H402
Proprietary salt 5	Proprietary	0.1 - 10	Skin Sens. 1, H317

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Harmful if swallowed. Causes serious eye damage.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes serious eye damage. Can cause blindness.

Symptoms/Injuries After Ingestion: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed No additional information available

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Use LARGE quantities of water as fog to fight FIRES in which this material is involved.

Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

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5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Self-heating: may catch fire.

Explosion Hazard: Under extreme fire conditions in confined areas, large quantities of decomposing sodium hydrosulfite may produce elemental sulfur. Sulfur dust at high concentrations may create potential for explosion. If presence of sulfur dust is suspected, the recommended response is to gently apply a fog stream of water to avoid creation of a dust cloud.

Reactivity: Self-heating: may catch fire. Water reactive. Substances contained within this product may react with water producing large amounts of heat that could ignite combustible materials. Keep away from combustible materials, water, and follow applicable regulations.

5.3. Advice for Firefighters

Precautionary Measures Fire: Under fire conditions closed containers may rupture or explode.

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Collect spillage.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Handling Temperature: Avoid sources of heat above 122 °F (50 °C).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Maintain air gap between stacks/pallets. Keep cool. Protect from sunlight.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from other materials. Store bulk masses at temperatures not exceeding 50°C / 122°F.

Incompatible Products: strong acids. Strong oxidizers.

Storage Temperature: < 50 °C (122 F) Keep material dry.

Storage Area: Keep/Store away from extremely high or low temperatures, incompatibles and direct sunlight. Store away from heat. Do not store near oxidizing agents or acidic material. Combustible materials.

7.3. Specific End Use(s) Reducing agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Proprietary salt 1		
USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³

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8.2. Exposure Controls

Appropriate Engineering Controls	: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Local exhaust and general ventilation must be adequate to meet exposure standards. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Personal Protective Equipment	: Face shield. Gloves. Protective goggles. Protective clothing. Dust formation: dust mask.
Materials for Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protection	: Wear chemically resistant protective gloves.
Eye Protection	: Chemical safety goggles. A full face shield is recommended.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear approved mask.
Other Information	: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Powder. White. free flowing.
Odor	: No data available
Odor Threshold	: No data available
pH	: 6 - 10 [1% by weight solution at 68 °F (20 °C)]
Evaporation Rate	: No data available
Melting Point	: 300 °C (572°F) Decomposes before reaching melting point (572.00 °F)
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: 250 °C (482°F) for sodium hydrosulfite powder (482.00 °F)
Decomposition Temperature	: 70 - 151 °C (158 - 304°F) for sodium hydrosulfite powder (158.0 - 303.8 °F)
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific gravity / density	: 55 - 65 lb/ft ³
Solubility	: Water: 18 % @ 70 °F (21 °C)
Partition Coefficient: N-Octanol/Water	: < -2.75 - -4.7 Log Pow (estimated) – for sodium hydrosulfite
Viscosity	: No data available

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Self-heating: may catch fire. Water reactive. Substances contained within this product may react with water producing large amounts of heat that could ignite combustible materials. Keep away from combustible materials, water, and follow applicable regulations.
- 10.2. Chemical Stability:** Self-heating: may catch fire.
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Sparks, heat, open flame and other sources of ignition. Protect from moisture. Direct sunlight. Heat. Extremely high temperatures.
- 10.5. Incompatible Materials:** Strong oxidizers. Strong acid. Peroxides. Water. In contact with air, mixing sodium hydrosulfite solutions with polysulfide or sulfide containing products may liberate potentially lethal Hydrogen Sulfide gas.
- 10.6. Hazardous Decomposition Products:** On heating: release of toxic and corrosive gases/vapors sulphur oxides. Carbon oxides (CO, CO₂).

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Oral: Harmful if swallowed.

Sodium dithionite (7775-14-6)	
LD50 Oral Rat	2500 mg/kg
LD50 Dermal Rat	> 2000
ATE (Oral)	500.00 mg/kg body weight
Sodium Hydrosulfite Powders and Blends	
ATE (Oral)	500.00 mg/kg body weight
Proprietary salt 1	
LD50 Oral Rat	1310 mg/kg
ATE (Oral)	1,131.00 mg/kg body weight
Proprietary salt 2	
LD50 Oral Rat	> 10000 mg/kg
Proprietary salt 3	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg
Proprietary salt 4	
LD50 Oral Rat	4090 mg/kg
LC50 Inhalation Rat	2300 mg/m ³ (Exposure time: 2 h)
Proprietary salt 5	
LD50 Oral Rat	11200 mg/kg

Skin Corrosion/Irritation: Not classified

pH: 6 - 10 [1% by weight solution at 68 °F (20 °C)]

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: 6 - 10 [1% by weight solution at 68 °F (20 °C)]

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Proprietary salt	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes serious eye damage. Can cause blindness.

Symptoms/Injuries After Ingestion: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Harmful to aquatic life with long lasting effects.

Sodium dithionite (7775-14-6)	
LC50 Fish 1	62.3 mg/l (Species :Leuciscus idus)
EC50 Daphnia 1	98 mg/l (Exposure time: 48 h - Species: Daphnia magna Straus)
Proprietary salt 1	
LC50 Fish 1	32 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Proprietary salt 2	
LC50 Fish 1	13500 (13500 - 14500) mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	2564 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	> 6800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

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Proprietary salt 3	
LC50 Fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and Degradability

Sodium Hydrosulfite Powders and Blends	
Persistence and Degradability	Not established. May cause long-term adverse effects in the environment.

12.3. Bio-accumulative Potential

Sodium Hydrosulfite Powders and Blends	
Bio-accumulative Potential	Not established.

Proprietary salt 1	
Log Pow	-3.7 (at 25 °C)

Proprietary salt 1	
BCF fish 1	(no bioaccumulation)

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

14.1. UN Number

UN-No.(DOT) : 1384

DOT NA no. UN1384

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Sodium hydrosulfite

Department of Transportation (DOT) : 4.2 - Class 4.2 - Spontaneously combustible material 49 CFR 173.124

Hazard Classes

Hazard Labels (DOT) : 4.2 - Spontaneously combustible



Packing Group (DOT) : II - Medium Danger

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DOT Special Provisions (49 CFR 172.102) : A19 - Combination packaging consisting of outer fiber drums or plywood drums, with inner plastic packaging, are not authorized for transportation by aircraft.
 A20 - Plastic bags as inner receptacles of combination packaging are not authorized for transportation by aircraft.
 IB6 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2). Additional Requirement: Composite IBCs 11HZ2 and 21HZ2 may not be used when the hazardous materials being transported may become liquid during transport.
 IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.
 T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)
 TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : None
DOT Packaging Non Bulk (49 CFR 173.xxx) : 212
DOT Packaging Bulk (49 CFR 173.xxx) : 241

14.3. Additional Information
Emergency Response Guide (ERG) Number : 135

Transport by Sea

DOT Vessel Stowage Location : E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.

DOT Vessel Stowage Other : 13 - Keep as dry as reasonably practicable

Air Transport

DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27) : 15 kg
DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75) : 50 kg

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Sodium Hydrosulfite Powders and Blends	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Reactive hazard
Sodium dithionite (7775-14-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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Proprietary salt 1
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Proprietary salt 2
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Proprietary salt 3
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Proprietary salt 4
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Proprietary salt 5
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations

Sodium dithionite (7775-14-6)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
Proprietary salt 1
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
Proprietary salt 2
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
Proprietary salt 3
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date	: 08/11/2015
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Self-heat. 1	Self-heating substances and mixtures Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H251	Self-heating: may catch fire
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

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H412	Harmful to aquatic life with long lasting effects
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Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S "Right to Know" (29 CFR 1910.1200) and Canada's WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.

SDS US (GHS HazCom)