

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Date of issue: 05/05/2015 Revision Date: 09/03/2015

## **SECTION 1: IDENTIFICATION**

#### **Product Identifier** 1.1.

Product Form: Mixture

Product Name: Sodium Hydrosulfite Solution

Product Code: V-BRITE; VIRWITE; VIRTEX; K-BRITE. This SDS applies to Chemtrade's V-BRITE; VIRWITE; VIRTEX, KBRITE 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; Liquid Hydro; Sodium Sulfoxylate; Dithionous Acid; Disodium Salt

Other means of identification: V-BRITE: VIRWITE: VIRTEX: K-BRITE. This SDS applies to Chemtrade's V-BRITE: VIRWITE: VIRTEX. KBRITE 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)

#### 1.2. **Intended Use of the Product**

Use of the substance/mixture: Reducing agent

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

Manufacturer

CHEMTRADE LOGISTICS INC. 155 Gordon Baker Road Suite 300 Toronto, Ontario M2H 3N5 For SDS Info: (416) 496-5856 www.chemtradelogistics.com

#### **Emergency Telephone Number** 1.4.

**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**

Classification (GHS-US)		
Acute Tox. 4 (Oral)	H302	
Skin Irrit. 2	H315	
Eye Irrit. 2A H319		
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)		

GHS	0
· Marnin	<i>_</i>

:

	GHS07	
Signal Word (GHS-US)	: Warning	
Hazard Statements (GHS-US)	: H302 - Harmful if swallow	red.
	H315 - Causes skin irritati	on.
	H319 - Causes serious eye	e irritation.
	H402 - Harmful to aquation	: life.
	H412 - Harmful to aquation	: life with long lasting effects.
Precautionary Statements (GHS-US)	: P264 - Wash exposed area	as. thoroughly after handling.
	P270 - Do not eat, drink o	r smoke when using this product.
	P273 - Avoid release to th	e environment.
	P280 - Wear protective gl	oves, protective clothing, and eye protection.
	P301+P312 - If swallowed	: Call a poison center or doctor if you feel unwell.
	P302+P352 - If on skin: W	ash with plenty of water.
	P305+P351+P338 - IF IN E	YES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if	present and easy to do. Continue rinsing.
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P321 - Specific treatment (see Section 4 on this SDS).

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

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)
Water	(CAS No) 7732-18-5	>= 50	Not classified
Sodium dithionite	(CAS No) 7775-14-6	5 - 30	Self-heat. 1, H251 Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Proprietary salt 1	Proprietary	0.1 - 4	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Proprietary salt 2	Proprietary	0.1 - 4	Eye Irrit. 2A, H319
Proprietary salt 3	Proprietary	0.1 - 4	Aquatic Acute 3, H402
Proprietary salt 4	Proprietary	0.1 - 4	Eye Irrit. 2A, H319 Aquatic Acute 3, H402
Proprietary component	Proprietary	0.1 - 2	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

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.

**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. Eye irritation. Causes skin irritation. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Symptoms/Injuries After Inhalation: Inhalation of vapors may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

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

If medical advice is needed, have product container or label at hand.

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### SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide, foam, water spray. Use extinguishing media appropriate for surrounding fire.

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

### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

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. Evacuate unnecessary personnel.

### 6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

## 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

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material.

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

### 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

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety procedures.

**Hygiene Measures:** Do not eat, drink or smoke when using this product. 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

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from other materials.

Incompatible Products: strong acids. Strong oxidizers.

Storage Temperature: 2 - 7 °C (35 - 45 °F) under nitrogen atmosphere

**Storage Area:** Keep/Store away from extremely high or low temperatures, incompatibles and direct sunlight. Store away from heat.

### 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 component		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m <sup>3</sup>

### 8.2. Exposure Controls

### **Appropriate Engineering Controls**

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

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Personal Protective Equipment	: Gloves. Protective goggles. Protective clothing.
Materials for Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protection	: Wear chemically resistant protective gloves.
Eye Protection	: Chemical safety goggles.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Other Information	: When using, do not eat, drink or smoke.

9.1. Information on Basic Physica	l and Chemical Properties
Physical State	: Liquid
Appearance	: Clear.
Odor	: Slight pungent
Odor Threshold	: No data available
рН	: 10 - 13.5
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: < 0 (32 °F)
Boiling Point	: > 100 °C (>212 °F) (212.00 °F)
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
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	: 1.12 - 1.18
Solubility	: Water: Miscible
Partition Coefficient: N-Octanol/Water	: < -2.754.7 Log Pow (estimated) – for sodium hydrosulfite
Viscosity	: No data available
9.2. Other Information	
VOC content	: 70 - 95 % (water)

### **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability: Product is stable.

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. Extremely high or low temperatures.

**10.5. Incompatible Materials:** Strong oxidizers. Strong acid. Peroxides. In contact with air, mixing sodium hydrosulfite solutions with polysulfide or sulfide containing products may liberate potentially lethal Hydrogen Sulfide gas. Strong acids. Strong bases. Strong oxidizers.

**10.6.** Hazardous Decomposition Products: On heating: release of toxic and corrosive gases/vapors sulphur oxides. Carbon oxides (CO, CO2).

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Oral: Harmful if swallowed.

Sodium Hydrosulfite Solution	
ATE (Oral)	500.00 mg/kg body weight
Sodium dithionite (7775-14-6)	
LD50 Oral Rat	2500 mg/kg
LD50 Dermal Rat	> 2000
ATE (Oral)	500.00 mg/kg body weight

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Proprietary salt 1			
LD50 Oral Rat	> 2000 mg/kg		
Proprietary salt 2			
LD50 Oral Rat	3560 mg/kg		
LD50 Dermal Rat	> 2000 mg/kg (Species: Wistar)		
LC50 Inhalation Rat	> 22 mg/l (Exposure time: 1 h)		
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 <sup>3</sup> (Exposure time: 2 h)		
Water (7732-18-5)			
LD50 Oral Rat	> 90000 mg/kg		
Skin Corrosion/Irritation: Causes skin irrita pH: 10 - 13.5	3001.		
-	rious ava irritation		
Serious Eye Damage/Irritation: Causes ser pH: 10 - 13.5	ious eye initiation.		
-	rified		
Respiratory or Skin Sensitization: Not class Germ Cell Mutagenicity: Not classified	sined		
Carcinogenicity: Not classified			
Proprietary salt			
IARC group	3		
Reproductive Toxicity: Not classified			
Specific Target Organ Toxicity (Single Expo	osure): Not classified		
Specific Target Organ Toxicity (Repeated I	Exposure): Not classified		
Aspiration Hazard: Not classified			
Symptoms/Injuries After Inhalation: Inhal	lation of vapors may cause respiratory irritation.		
Symptoms/Injuries After Skin Contact: Ca	Symptoms/Injuries After Skin Contact: Causes skin irritation.		
Symptoms/Injuries After Eye Contact: Cau	Symptoms/Injuries After Eye Contact: Causes serious eye irritation.		
	owing a small quantity of this material will result in serious health hazard.		
SECTION 12: ECOLOGICAL INFORMA	TION		
12.1. Toxicity			
Ecology - General	: Harmful to aquatic life with long lasting effects.		
Codium dithionite (7775 14 C)			
Sodium dithionite (7775-14-6)			
LC50 Fish 1	62.3 mg/l (Species :Leuciscus idus)		
	C50 Daphnia 1     98 mg/l (Exposure time: 48 h - Species: Daphnia magna Straus)		
Proprietary salt 1			
LC50 Fish 1	34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
EC50 Daphnia 1	113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
	44.2 - 76.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
LC 50 Fish 2			
Proprietary salt 2			
	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
Proprietary salt 2			
Proprietary salt 2 LC50 Fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
Proprietary salt 2 LC50 Fish 1 EC50 Daphnia 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) 265 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
Proprietary salt 2 LC50 Fish 1 EC50 Daphnia 1 LC 50 Fish 2	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) 265 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
Proprietary salt 2 LC50 Fish 1 EC50 Daphnia 1 LC 50 Fish 2 Proprietary component	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) 265 mg/l (Exposure time: 48 h - Species: Daphnia magna) 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
Proprietary salt 2 LC50 Fish 1 EC50 Daphnia 1 LC 50 Fish 2 Proprietary component LC50 Fish 1 EC50 Daphnia 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) 265 mg/l (Exposure time: 48 h - Species: Daphnia magna) 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) 40 mg/l		
Proprietary salt 2LC50 Fish 1EC50 Daphnia 1LC 50 Fish 2Proprietary componentLC50 Fish 1EC50 Daphnia 112.2. Persistence and Degradability	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) 265 mg/l (Exposure time: 48 h - Species: Daphnia magna) 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) 40 mg/l		
Proprietary salt 2LC50 Fish 1EC50 Daphnia 1LC 50 Fish 2Proprietary componentLC50 Fish 1EC50 Daphnia 112.2. Persistence and DegradabilitySodium Hydrosulfite Solution	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) 265 mg/l (Exposure time: 48 h - Species: Daphnia magna) 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) 40 mg/l		
Proprietary salt 2LC50 Fish 1EC50 Daphnia 1LC 50 Fish 2Proprietary componentLC50 Fish 1EC50 Daphnia 112.2. Persistence and Degradability	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])         265 mg/l (Exposure time: 48 h - Species: Daphnia magna)         310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])         45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])         40 mg/l		

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12.3. Bioaccumulative Potential	12.3. Bioaccumulative Potential		
Sodium Hydrosulfite Solution			
Bioaccumulative Potential	Not established.		
Proprietary salt 1			
Log Pow	-4 (at 25 °C)		
Proprietary salt 2			
BCF fish 1	(no bioaccumulation)		
12.4. Mobility in Soil No additional infor	mation available		
12.5. Other Adverse Effects			
Other Information	: Avoid release to the environment.		
SECTION 13: DISPOSAL CONSIDERATIO			
13.1. Waste treatment methods			
	of waste material in accordance with all local, regional, national, provincial,		
territorial and international regulations.			
-	azardous to the aquatic environment. Keep out of sewers and waterways.		
SECTION 14: TRANSPORT INFORMATIC	DN		
14.1 In Accordance with DOT Not regulated			
14.2 In Accordance with IMDG Not regulate			
14.3 In Accordance with IATA Not regulated			
14.4 In Accordance with TDG Not regulated			
SECTION 15: REGULATORY INFORMAT	ION		
15.1 US Federal Regulations			
Sodium Hydrosulfite Solution			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
Sodium dithionite (7775-14-6)			
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory		
Proprietary salt 1			
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory		
Proprietary salt 2			
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory		
Proprietary salt 3			
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory		
Proprietary salt 3 Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Proprietary component			
	ances Control Act) inventory		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Water (7732-18-5) 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) - Environmental Hazard 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) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

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### **Proprietary component**

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance 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**
- **Other Information**

: 09/03/2015

- : 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
Met. Corr. 1	Corrosive to metals Category 1
Self-heat. 1	Self-heating substances and mixtures Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H251	Self-heating: may catch fire
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

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<sup>™</sup>.

SDS US (GHS HazCom)