

# Sodium Bisulfite Solution

## Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Revision Date: 05/08/2018

Date of Issue: 05/02/2015

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Sodium Bisulfite Solution

**Synonyms:** Sodium bisulfite, SBS

#### Intended Use of the Product

For the manufacture of oxygen scavenging and dechlorination, bleaching agent, and papermaking.

#### 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](http://www.chemtradelogistics.com)

#### Emergency Telephone Number

**Emergency Number :**

Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300

INTERNATIONAL: +1-703-741-5970

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 of the Substance or Mixture

##### **GHS Classification**

Met. Corr. 1                      H290

Skin Irrit. 2                      H315

Eye Irrit. 2A                    H319

STOT SE 3                      H335

Aquatic Acute 3                H402

Full text of hazard classes and H-statements : see section 16

#### Label Elements

##### **GHS Labeling**

##### **Hazard Pictograms**



##### **Signal Word**

: Warning

##### **Hazard Statements**

: H290 - May be corrosive to metals.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H402 - Harmful to aquatic life.

##### **Precautionary Statements**

: P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P273 - Avoid release to the environment.

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

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P321 - Specific treatment (see section 4 on this SDS).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P390 - Absorb spillage to prevent material damage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P406 - Store in corrosive resistant container with a resistant inner liner.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### **Other Hazards**

Contact with acids liberates toxic gas. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### **Unknown acute toxicity**

No data available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **Mixture**

Name	Product Identifier	%*	GHS Ingredient Classification
Water	(CAS No) 7732-18-5	40 - 70	Not classified
Sodium bisulfite**	(CAS No) 7631-90-5	30 - 60 <sup>+</sup>	Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

\*\*Dry sodium bisulfite is not known to product significant irritation; however, in solution causes skin, eye, and respiratory irritation in addition to metal corrosion.

\*The actual concentration of the ingredient(s) is withheld as a trade secret in accordance with Regulations Amending the Hazardous Products Regulations (HPR) SOR/2018-68 and 29 CFR 1910.1200.

## **SECTION 4: FIRST AID MEASURES**

### **Description of 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).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

**Inhalation:** Irritation of the respiratory tract and the other mucous membranes. May cause an allergic reaction in sensitive individuals.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic reaction in sensitive individuals.

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

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

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Contact with metallic substances may release flammable hydrogen gas.

**Reactivity:** May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. Under heated conditions or on contact with acids will produce the toxic gas sulfur dioxide.

### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

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

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities if liquid enter sewers or waterways.

**Hazardous Combustion Products:** Sulfur oxides.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### Environmental Precautions

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

### Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb spillage to prevent material damage.

### Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Avoid contact with skin, eyes and clothing. Avoid contact with eyes, skin and clothing.

**Additional Hazards When Processed:** May be corrosive to metals.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in corrosive resistant container with a resistant inner liner.

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**Incompatible Materials:** Acids. Metals. Oxidizers. Combustible materials.

### Specific End Use(s)

For the manufacture of oxygen scavenging and dechlorination, bleaching agent, and papermaking.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Sodium bisulfite (7631-90-5)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Manitoba	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Nunavut	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Nunavut	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear 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. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Pale to deep pink.
Odor	: Pungent. Sulfurous.
Odor Threshold	: Not available
pH	: 3.8 - 5.2

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<b>Evaporation Rate</b>	: Not available
<b>Melting Point</b>	: Not applicable
<b>Freezing Point</b>	: 6 °C (42.8 °F)
<b>Boiling Point</b>	: 104 °C (219.2 °F)
<b>Flash Point</b>	: Not available
<b>Auto-ignition Temperature</b>	: Not applicable
<b>Decomposition Temperature</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not applicable
<b>Lower Flammable Limit</b>	: Not applicable
<b>Upper Flammable Limit</b>	: Not applicable
<b>Vapor Pressure</b>	: 10.4 kPa (78 mm Hg) @ 20°C (68 °F)
<b>Relative Vapor Density at 20°C</b>	: Not available
<b>Relative Density</b>	: Not available
<b>Specific Gravity</b>	: 1.33
<b>Solubility</b>	: Water: Miscible in all proportions in water.
<b>Partition Coefficient: N-Octanol/Water</b>	: Not available
<b>Viscosity</b>	: Not available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. Under heated conditions or on contact with acids will produce the toxic gas sulfur dioxide.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Acids. Metals. Oxidizers. Combustible materials.

**Hazardous Decomposition Products:** None expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**pH:** 3.8 - 5.2

**Eye Damage/Irritation:** Causes serious eye irritation.

**pH:** 3.8 - 5.2

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Aspiration Hazard:** Not classified

**Symptoms/Effects After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. May cause an allergic reaction in sensitive individuals.

**Symptoms/Effects After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic reaction in sensitive individuals.

**Symptoms/Effects After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Effects After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### Information on Toxicological Effects - Ingredient(s)

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### LD50 and LC50 Data:

<b>Water (7732-18-5)</b>	
LD50 Oral Rat	> 90000 mg/kg
<b>Sodium bisulfite (7631-90-5)</b>	
LD50 Oral Rat	1310 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	>= 5.5 mg/l/4h
<b>Sodium bisulfite (7631-90-5)</b>	
IARC Group	3

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Harmful to aquatic life.

<b>Sodium bisulfite (7631-90-5)</b>	
EC50 Daphnia 1	119 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### Persistence and Degradability

<b>Sodium Bisulfite Solution</b>	
Persistence and Degradability	Not established.

### Bioaccumulative Potential

<b>Sodium Bisulfite Solution</b>	
Bioaccumulative Potential	Not established.

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS





**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

TRANSPORTATION CLASSIFICATION	DOT	TDG	IMDG	IATA
Identification Number	UN2693	UN2693	UN2693	UN2693
Proper Shipping Name	BISULFITES, AQUEOUS SOLUTIONS, N.O.S.	BISULPHITES, AQUEOUS SOLUTION, N.O.S.	BISULPHITES, AQUEOUS SOLUTION, N.O.S.	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Transport Hazard Class(es)	8	8	8	8
				
Packing Group	III	III	III	III
Environmental Hazards	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant: N/A
Emergency Response	ERG Number : 154	ERAP Index: Not applicable	EMS: F-A, S-B	ERG code (IATA): 8L
Additional Information	Not applicable	Not applicable	Not applicable	Not applicable

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### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

Chemical Name (CAS No.)	CERCLA RQ	EPCRA 304 RQ	SARA 302 TPQ	SARA 313
Sodium bisulfite (7631-90-5)	5000 lb	Not applicable	Not applicable	No

#### SARA 311/312

Sodium Bisulfite Solution
Immediate (acute) health hazard

US TSCA Flags Not present

#### US State Regulations

##### California Proposition 65

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Sodium bisulfite (7631-90-5)	No	No	No	No

#### State Right-To-Know Lists

Sodium bisulfite (7631-90-5)
U.S. - Massachusetts - Right To Know List - Yes U.S. - New Jersey - Right to Know Hazardous Substance List - Yes U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No U.S. - Pennsylvania - RTK (Right to Know) List - Yes

#### Canadian Regulations

Sodium bisulfite (7631-90-5)
Listed on the Canadian DSL (Domestic Substances List) Not listed on the Canadian NDSL (Non-Domestic Substances List)

#### International Inventories/Lists

Chemical Name (CAS No.)	Australia AICS	Turkey CICR	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EU NLP	Mexico INSQ
Sodium bisulfite (7631-90-5)	Yes	Yes	Yes	Yes	No	No	No	Yes

Chemical Name (CAS No.)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSC	Japan PRTR	Philippines PICCS	New Zealand NZIOC	US TSCA
Sodium bisulfite (7631-90-5)	Yes	Yes	No	No	No	Yes	Yes	Yes

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

Revision Date : 05/08/2018

#### Revision Summary

Section	Change	Date Changed
2	Classification modified	05/08/2018
3	Classification modified, HPR trade secret statement	05/08/2018
4	Language modified	05/08/2018
5	Language modified	05/08/2018
6	Language modified	05/08/2018
7	Language modified	05/08/2018
8	Language modified	05/08/2018
10	Language modified	05/08/2018
11	Data modified	05/08/2018
12	Language modified	05/08/2018
13	Language modified	05/08/2018
15	Language modified	05/08/2018

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16	Data modified	05/08/2018
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**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

### 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
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H290	May be corrosive to metals
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

### NFPA 704

**NFPA Health Hazard** : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA Fire Hazard** : 0 - Materials that will not burn under typical dire conditions, including intrinsically non-combustible materials such as concrete, stone, and sand.

**NFPA Reactivity Hazard** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

### HMIS Rating

**Health** : 2 Moderate Hazard - Temporary or minor injury may occur

**Flammability** : 0 Minimal Hazard

**Physical** : 0 Minimal Hazard

**PPE** See Section 8

### Abbreviations and Acronyms

AICS – Australian Inventory of Chemical Substances  
ACGIH – American Conference of Governmental Industrial Hygienists  
AIHA – American Industrial Hygiene Association  
ATE - Acute Toxicity Estimate  
BCF - Bioconcentration factor  
BEI - Biological Exposure Indices (BEI)  
CAS No. - Chemical Abstracts Service number  
CERCLA RQ - Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity  
CICR - Turkish Inventory and Control of Chemicals  
DOT – 49 CFR – US Department of Transportation – Code of Federal Regulations Title 49 – Transportation.  
EC50 - Median effective concentration  
ECL - Korea Existing Chemicals List  
EINECS - European Inventory of Existing Commercial Chemical Substances  
ELINCS - European List of Notified Chemical Substances  
EmS - IMDG Emergency Schedule Fire & Spillage  
ENCS - Japanese Existing and New Chemical Substances Inventory  
EPA – Environmental Protection Agency  
EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know-Act – Reportable Quantity  
ERAP Index – Emergency Response Assistance Plan Quantity Limit  
ErC50 - EC50 in Terms of Reduction Growth Rate  
ERG code (IATA) - Emergency Response Drill Code as found in the International

ISHL - Japan Industrial Safety and Health Law  
LC50 - Median Lethal Concentration  
LD50 - Median Lethal Dose  
LOAEL - Lowest Observed Adverse Effect Level  
LOEC - Lowest-observed-effect Concentration  
NFPA 704 – National Fire Protection Association - Standard System for the Identification of the Hazards of Materials for Emergency Response  
NIOSH - National Institute for Occupational Safety and Health  
NLP - Europe No Longer Polymers List  
NOAEL - No-Observed Adverse Effect Level  
NOEC - No-Observed Effect Concentration  
NZIOC - New Zealand Inventory of Chemicals  
OEL - Occupational Exposure Limits  
OSHA – Occupational Safety and Health Administration  
PEL - Permissible Exposure Limits  
PICCS - Philippine Inventory of Chemicals and Chemical Substances  
PDSC - Japan Poisonous and Deleterious Substances Control Law  
PPE – Personal Protective Equipment  
PRTR - Japan Pollutant Release and Transfer Register  
REL - Recommended Exposure Limit  
SADT - Self Accelerating Decomposition Temperature  
SARA - Superfund Amendments and Reauthorization Act  
SARA 302 - Section 302, 40 CFR Part 355  
SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories



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Civil Aviation Organization (ICAO)	SARA 313 - Section 313, 40 CFR Part 372
ERG No. - Emergency Response Guide Number	SRCL - Specifically Regulated Carcinogen List
HCCL - Hazard Communication Carcinogen List	STEL - Short Term Exposure Limit
HMIS - Hazardous Materials Information System	SVHC - European Candidate List of Substance of Very High Concern
IARC - International Agency for Research on Cancer	TDG - Transport Canada Transport of Dangerous Goods Regulations
IATA - International Air Transport Association - Dangerous Goods Regulations	TLM - Median Tolerance Limit
IDLH - Immediately Dangerous to Life or Health	TLV - Threshold Limit Value
IECSC - Inventory of Existing Chemical Substances Produced or Imported in China	TPQ - Threshold Planning Quantity
IMDG - International Maritime Dangerous Goods Code	TSCA - United States Toxic Substances Control Act
INSQ - Mexican National Inventory of Chemical Substances	TWA - Time Weighted Average
	WEEL - Workplace Environmental Exposure Levels

*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™.*



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