



# Filter & Tile Cleaner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: 08/06/2014 Date of issue: 08/06/2014

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Filter & Tile Cleaner

#### Intended Use of the Product

Cleaning Swimming Pool Filters and Tiles

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

##### **Company**

Lo-Chlor, LLC  
5841 Powerline Rd. Suite 202  
Fort Lauderdale, FL 33309  
954-491-9810  
[Lo-chlor.com](http://Lo-chlor.com)

#### Emergency Telephone Number

**Emergency number** : 1-800-424-9300 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Skin Corr. 1A H314

Eye Dam. 1 H318

Aquatic Acute 3 H402

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H402 - Harmful to aquatic life

##### **Precautionary Statements (GHS-US)**

: P260 - Do not breathe mist, spray, vapors  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling  
P273 - Avoid release to the environment  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing  
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/physician  
P321 - Specific treatment (see Section 4)  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container according to local, regional, national, territorial,

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provincial, and international regulations

### Other Hazards

**Other Hazards Not Contributing to the Classification:** Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Sodium xylene sulfonate	(CAS No) 1300-72-7	7 - 10.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium metasilicate pentahydrate	(CAS No) 10213-79-3	5 - 9	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Pentasodium triphosphate	(CAS No) 7758-29-4	3 - 7	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
2-Butoxyethanol	(CAS No) 111-76-2	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Benzenesulfonic acid, C10-16-alkyl derivatives	(CAS No) 68584-22-5	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2A, H319 Aquatic Acute 2, H401

Full text of H-phrases: see Section 16

## 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 if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician.

**Eye Contact:** Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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

**General:** Causes severe skin burns and eye damage.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Highly corrosive to skin.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

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

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

If you feel unwell, seek medical advice (show the label where possible).

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### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**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 considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Thermal decomposition generates : Corrosive vapors.

#### 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.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Sulfur oxides.

#### 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 all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

#### For Non-Emergency Personnel

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

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

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

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 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.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

**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 when leaving work.

#### Conditions for Safe Storage, Including Any Incompatibilities

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

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

#### Specific End Use(s)

Cleaning Swimming Pool Filters and Tiles.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

<b>2-Butoxyethanol (111-76-2)</b>		
Mexico	OEL TWA (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Mexico	OEL TWA (ppm)	26 ppm
Mexico	OEL STEL (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Mexico	OEL STEL (ppm)	75 ppm
USA ACGIH	ACGIH TWA (ppm)	20 ppm

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USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	24 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	700 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	97 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	20 ppm
British Columbia	OEL TWA (ppm)	20 ppm
Manitoba	OEL TWA (ppm)	20 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	121 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	25 ppm
Newfoundland & Labrador	OEL TWA (ppm)	20 ppm
Nova Scotia	OEL TWA (ppm)	20 ppm
Nunavut	OEL STEL (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Nunavut	OEL STEL (ppm)	75 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Nunavut	OEL TWA (ppm)	25 ppm
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (ppm)	75 ppm
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (ppm)	25 ppm
Ontario	OEL TWA (ppm)	20 ppm
Prince Edward Island	OEL TWA (ppm)	20 ppm
Québec	VEMP (mg/m <sup>3</sup> )	97 mg/m <sup>3</sup>
Québec	VEMP (ppm)	20 ppm
Saskatchewan	OEL STEL (ppm)	30 ppm
Saskatchewan	OEL TWA (ppm)	20 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	150 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	50 ppm

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. 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.

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



**Materials for Protective Clothing:** Corrosionproof clothing.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses. Face shield.

**Skin and Body Protection:** Corrosionproof clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Slightly milky
Odor	: Mild
Odor Threshold	: Not available
pH	: 12 - 13
Relative Evaporation Rate (butylacetate=1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Specific Gravity	: 1.1
Solubility	: Not available
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Thermal decomposition generates : Corrosive vapors.
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. Incompatible materials.
Incompatible Materials:	strong acids. Strong bases. Strong oxidizers.
Hazardous Decomposition Products:	Carbon oxides (CO, CO <sub>2</sub> ). Corrosive vapors. Sulfur oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

Acute Toxicity:	Not classified
LD50 and LC50 Data:	Not available
Skin Corrosion/Irritation:	Causes severe skin burns and eye damage.
pH:	12 - 13
Serious Eye Damage/Irritation:	Causes serious eye damage.
pH:	12 - 13
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Teratogenicity:	Not available
Carcinogenicity:	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	Not classified
Aspiration Hazard:	Not classified
Potential Adverse Human Health Effects and Symptoms:	Harmful if swallowed.

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**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Highly corrosive to skin.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

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

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

#### **LD50 and LC50 Data:**

<b>2-Butoxyethanol (111-76-2)</b>	
LD50 Oral Rat	470 mg/kg
LD50 Dermal Rat	220 mg/kg
LC50 Inhalation Rat	450 ppm/4h
ATE US (vapors)	3.84 mg/l/4h

<b>Pentasodium triphosphate (7758-29-4)</b>	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg

<b>Sodium xylene sulfonate (1300-72-7)</b>	
LD50 Oral Rat	1000 mg/kg

<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
LD50 Oral Rat	775 mg/kg
LD50 Dermal Rat	2000 mg/kg

<b>2-Butoxyethanol (111-76-2)</b>	
IARC Group	3
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Toxicity**

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

<b>2-Butoxyethanol (111-76-2)</b>	
LC50 Fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
LC50 Fish 1	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	2.9 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**Persistence and Degradability** Not available

### **Bioaccumulative Potential**

<b>2-Butoxyethanol (111-76-2)</b>	
Log Pow	0.81 (at 25 °C)

<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
Log Pow	2 (at 23 °C)

**Mobility in Soil** Not available

### **Other Adverse Effects**

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

## **SECTION 13: DISPOSAL CONSIDERATIONS**

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

**Ecology – Waste Materials:** Avoid release to the environment.

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### SECTION 14: TRANSPORT INFORMATION

#### 14.1 In Accordance with DOT

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Contains Disodium trioxosilicate)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Packing Group** : III  
**Marine Pollutant** : Marine pollutant (Benzenesulfonic acid, C10-16-alkyl derivatives)  
**ERG Number** : 154



#### 14.2 In Accordance with IMDG

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Contains Disodium trioxosilicate)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Packing Group** : III  
**Label Codes** : 8  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-B



#### 14.3 In Accordance with IATA

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Contains Disodium trioxosilicate)  
**Packing Group** : III  
**Identification Number** : UN1760  
**Hazard Class** : 8  
**Label Codes** : 8  
**ERG Code (IATA)** : 8L



#### 14.4 In Accordance with TDG

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Contains Disodium trioxosilicate)  
**Packing Group** : III  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Marine Pollutant (TDG)** : Marine pollutant (Benzenesulfonic acid, C10-16-alkyl derivatives)



### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<b>Filter &amp; Tile Cleaner</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard
<b>2-Butoxyethanol (111-76-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Pentasodium triphosphate (7758-29-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium xylene sulfonate (1300-72-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

#### US State Regulations

<b>2-Butoxyethanol (111-76-2)</b>
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

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### Pentasodium triphosphate (7758-29-4)

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

### Canadian Regulations

#### Filter & Tile Cleaner

WHMIS Classification      Class E - Corrosive Material



### 2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.  
 Listed on the Canadian Ingredient Disclosure List

IDL Concentration 1 %

WHMIS Classification      Class B Division 3 - Combustible Liquid  
 Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects  
 Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects  
 Class D Division 2 Subdivision B - Toxic material causing other toxic effects

### Pentasodium triphosphate (7758-29-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification      Uncontrolled product according to WHMIS classification criteria

### Sodium xylene sulfonate (1300-72-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification      Class D Division 2 Subdivision B - Toxic material causing other toxic effects

### Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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

**Revision date** : 08/06/2014  
**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. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute 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
Flam. Liq. 4	Flammable liquids Category 4
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B



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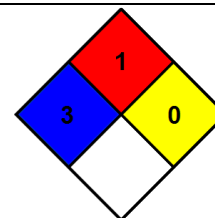
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
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
H331	Toxic if inhaled
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H402	Harmful to aquatic life

**NFPA Health Hazard** : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

**NFPA Fire Hazard** : 1 - Must be preheated before ignition can occur.

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



### HMIS III Rating

**Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

**Flammability** : 1 Slight Hazard

**Physical** : 0 Minimal Hazard

### Party Responsible for the Preparation of This Document

Lo-Chlor, LLC  
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954-491-9810

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS