

CryoStor[®] CS2; CS5; CS10

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
And According To The Hazardous Products Regulation (February 11, 2015).



SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Form: Mixture

Product Name: CryoStor CS2; CryoStor CS5; CryoStor CS10

Synonyms: CS2; CS5; CS10

1.2. Intended Use of the Product

Ultra-low temperature, storage of biological material.

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

Company

BioLife Solutions, Inc.
3303 Monte Villa Parkway
Suite 310
Bothell, WA 98021
425-402-1400
www.biolifesolutions.com

1.4. Emergency Telephone Number

Emergency Number: 425-402-1400

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Not classified

2.2. Label Elements

GHS-US/CA Labeling

No labeling applicable

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. This product contains Dimethyl sulfoxide (CH₃)₂SO (DMSO). DMSO easily penetrates the skin, and may increase the rate of skin absorption of skin-permeable substances.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture*

| Name | Product Identifier | % ** | GHS Ingredient Classification |
|------------------------|---------------------|--------|---|
| Dimethyl sulfoxide | (CAS-No.) 67-68-5 | 3 - 11 | Flam. Liq. 4, H227 |
| Sucrose | (CAS-No.) 57-50-1 | 1 | Comb. Dust |
| Sodium hydroxide*** | (CAS-No.) 1310-73-2 | 0.6 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 |
| Potassium hydroxide*** | (CAS-No.) 1310-58-3 | 0.168 | Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 1, H370 |

Full text of H-phrases: see section 16

*Additional proprietary components do not contribute to the overall hazard classification.

**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%).

*** Components are added to adjust pH, are neutralized, and do not contribute to the overall hazard classification.

SECTION 4: FIRST AID MEASURES

4.1. 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.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use. DMSO may enhance the rate of skin absorption of skin-permeable substances.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation. DMSO may enhance the rate of skin absorption of skin-permeable substances.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. 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

5.1. 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.

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. Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

5.3. Advice for Firefighters

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

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

Hazardous Combustion Products: Irritating or toxic vapors. Carbon oxides (CO, CO₂). Nitrogen oxides. Methylmercaptan. Dimethyl sulfide. Sulfur oxides. Sodium oxides. Hydrogen chloride. Potassium oxides. Phosphorous oxide. Calcium oxides. Magnesium oxides. Formaldehyde. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

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

6.1.1. For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. 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.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. 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. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

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

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: DMSO increases the skin absorption of substances with it, and thereby their toxic effect may be greater than that of the substances alone. Care should be taken if working with DMSO and any other hazardous materials as they may be absorbed more readily by the skin. Contains substances that are combustible dusts. If dried and allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion. Take appropriate precautions.

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 prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, and spray. Use appropriate personal protective equipment (PPE).

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

7.2. 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 tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Strong reducing agents. Halogenated organic and mineral acids. Methyl bromide, sodium hydride. Halides. Metal salts of oxoacids. Metal salts. Zinc. Steel. Some plastics. Acid chlorides. Boron compounds. Maleic anhydride. Water reactive materials.

Storage Temperature: 2 - 8 °C

7.3. Specific End Use(s)

Ultra-low temp, storage of biological material.

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

Sucrose (57-50-1)

| | | |
|-------------------------|--------------------------------------|--|
| Mexico | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Mexico | OEL STEL (mg/m ³) | 20 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| USA ACGIH | ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust) |
| Alberta | OEL TWA (mg/m ³) | 10 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 10 mg/m ³ (total dust) 3 mg/m ³ (respirable fraction) |
| Manitoba | OEL TWA (mg/m ³) | 10 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Nova Scotia | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Nunavut | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Northwest Territories | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Northwest Territories | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Ontario | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Prince Edward Island | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Québec | VEMP (mg/m ³) | 10 mg/m ³ |
| Saskatchewan | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Yukon | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Yukon | OEL TWA (mg/m ³) | 30 mppcf 10 mg/m ³ |

Dimethyl sulfoxide (67-68-5)

| | | |
|----------|----------------|---------|
| USA AIHA | WEEL TWA (ppm) | 250 ppm |
|----------|----------------|---------|

Sodium hydroxide (1310-73-2)

| | | |
|-----------|--|---------------------|
| Mexico | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| USA ACGIH | ACGIH Ceiling (mg/m ³) | 2 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 2 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 2 mg/m ³ |

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| | | |
|------------------------------------|----------------------------------|----------------------|
| USA IDLH | US IDLH (mg/m ³) | 10 mg/m ³ |
| Alberta | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| British Columbia | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Manitoba | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| New Brunswick | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Newfoundland & Labrador | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Nova Scotia | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Nunavut | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Northwest Territories | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Ontario | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Prince Edward Island | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Québec | PLAFOND (mg/m ³) | 2 mg/m ³ |
| Saskatchewan | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Yukon | OEL Ceiling (mg/m ³) | 2 mg/m ³ |

Potassium hydroxide (1310-58-3)

| | | |
|------------------------------------|--|---------------------|
| USA ACGIH | ACGIH Ceiling (mg/m ³) | 2 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 2 mg/m ³ |
| Alberta | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| British Columbia | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Manitoba | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| New Brunswick | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Newfoundland & Labrador | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Nova Scotia | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Nunavut | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Northwest Territories | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Ontario | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Prince Edward Island | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Québec | PLAFOND (mg/m ³) | 2 mg/m ³ |
| Saskatchewan | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Yukon | OEL Ceiling (mg/m ³) | 2 mg/m ³ |

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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 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 and Face Protection: Chemical safety goggles.

Skin and Body Protection: In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact with the product is possible.

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

9.1. Information on Basic Physical and Chemical Properties

| | |
|--|------------------------------------|
| Physical State | Liquid |
| Appearance | Clear/colorless to slightly yellow |
| Odor | Slight Odor |
| Odor Threshold | Not available |
| pH | 7.5 - 7.7 |
| Evaporation Rate | 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 applicable |
| Lower Flammable Limit | Not available |
| Upper Flammable Limit | Not available |
| Vapor Pressure | Not available |
| Relative Vapor Density at 20°C | Not available |
| Relative Density | Not available |
| Specific Gravity | 1.05 - 1.07 |
| Solubility | Soluble in water |
| Partition Coefficient: N-Octanol/Water | Not available |
| Viscosity | Not available |

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions. Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

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

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

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Strong reducing agents. Halogenated organic and mineral acids. Methyl bromide, sodium hydride. Halides. Metal salts of oxoacids. Metal salts. Zinc. Steel. Some plastics. Acid chlorides. Boron compounds. Maleic anhydride. Water reactive materials.

10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. 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: Not classified.

pH: 7.5 - 7.7

Eye Damage/Irritation: Not classified.

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): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. DMSO may enhance the rate of skin absorption of skin-permeable substances.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

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11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Sucrose (57-50-1)

| | |
|---------------|-------------|
| LD50 Oral Rat | 29700 mg/kg |
|---------------|-------------|

Dimethyl sulfoxide (67-68-5)

| | |
|---------------------|----------------|
| LD50 Oral Rat | > 20000 mg/kg |
| LD50 Dermal Rat | ≈ 40000 mg/kg |
| LC50 Inhalation Rat | > 5.33 mg/l/4h |

Potassium hydroxide (1310-58-3)

| | |
|---------------|-----------|
| LD50 Oral Rat | 284 mg/kg |
|---------------|-----------|

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Dimethyl sulfoxide (67-68-5)

| | |
|-------------|---|
| LC50 Fish 1 | 34 g/l (Exposure time: 96 h - Species: Pimephales promelas) |
| LC50 Fish 2 | 33 - 37 g/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

Sodium hydroxide (1310-73-2)

| | |
|----------------|---|
| LC50 Fish 1 | 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1 | 40 mg/l |

12.2. Persistence and Degradability

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| | |
|-------------------------------|------------------|
| Persistence and Degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative Potential

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| | |
|---------------------------|------------------|
| Bioaccumulative Potential | Not established. |
|---------------------------|------------------|

Dimethyl sulfoxide (67-68-5)

| | |
|---------|-------|
| Log Pow | -2.03 |
|---------|-------|

Potassium hydroxide (1310-58-3)

| | |
|---------|------|
| Log Pow | 0.65 |
|---------|------|

12.4. Mobility in Soil

 Not 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 contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

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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.

- 14.1. **In Accordance with DOT** Not regulated for transport
- 14.2. **In Accordance with IMDG** Not regulated for transport
- 14.3. **In Accordance with IATA** Not regulated for transport
- 14.4. **In Accordance with TDG** Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Sucrose (57-50-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Dimethyl sulfoxide (67-68-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium hydroxide (1310-73-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
CERCLA RQ **1000 lb**

Potassium hydroxide (1310-58-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
CERCLA RQ **1000 lb**

15.2. US State Regulations

Sucrose (57-50-1)

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

Dimethyl sulfoxide (67-68-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

Sodium hydroxide (1310-73-2)

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

Potassium hydroxide (1310-58-3)

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

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15.3. Canadian Regulations

Sucrose (57-50-1)

Listed on the Canadian DSL (Domestic Substances List)

Dimethyl sulfoxide (67-68-5)

Listed on the Canadian DSL (Domestic Substances List)

Sodium hydroxide (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

Potassium hydroxide (1310-58-3)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION

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) SOR/2015-17.

GHS Full Text Phrases:

| | |
|----------------------------|--|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Comb. Dust | Combustible Dust |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Met. Corr. 1 | Corrosive to metals Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| STOT SE 1 | Specific target organ toxicity (single exposure) Category 1 |
| H227 | Combustible liquid |
| H290 | May be corrosive to metals |
| H301 | Toxic if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H370 | Causes damage to organs |
| H402 | Harmful to aquatic life |

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.
NA GHS SDS 2015 (Can, US, Mex)