SECTION 1: IDENTIFICATION

Product Identifier
Product Name: Carbon Disulfide
CAS No: 75-15-0
Formula: CS2
Synonyms: Carbon sulfide; carbonsulphide; Carbon sulphide; Dithioxomethane

Intended Use of the Product
For the manufacture of viscose rayon, cellophane films, rubber vulcanization accelerators, xanthates, pharmaceutical intermediates (such as thiocarbanilide and thiocyanates), mercaptoethylamine, and several fungicides, soil fumigants, insecticides and their intermediates. Carbon disulfide is used as a solvent for rubbers, waxes, fats, oils, plastics, sulfur, phosphorus, selenium, bromine and iodine.

Name, Address, and Telephone of the Responsible Party
Manufacturer
CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For MSDS Info: (416) 496-5856
www.chemtradelogistics.com

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

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
Classification (GHS-US)
Flam. Liq. 2 H225
Acute Tox. 4 (Inhalation:dust,mist) H332
Eye Irrit. 2A H319
Repr. 2 H361
STOT RE 1 H372
Aquatic Acute 2 H401

Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US)

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) :
H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H361 - Possible risk of impaired fertility, May damage the unborn child (Inhalation, Dermal)
H372 - Causes damage to organs (peripheral nervous system, central nervous system, cardiovascular system, eye) through prolonged or repeated exposure (Inhalation, Dermal)
H401 - Toxic to aquatic life

Precautionary Statements (GHS-US) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe mist, spray, vapors
P264 - Wash exposed areas. Thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear eye protection, protective clothing, protective gloves
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 victim 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
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P314 - Get medical advice and attention if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P370+P378 - In case of fire: Use appropriate media for extinction
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to local, regional, national, and international regulations

Other Hazards
Other Hazards Not Contributing to the Classification: Not available
Unknown Acute Toxicity (GHS-US): Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substances</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Product identifier</td>
</tr>
<tr>
<td>Carbon disulfide</td>
<td>(CAS No) 75-15-0</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 exposed or concerned: Get medical advice/attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion:** Rinse mouth. Do NOT induce vomiting.

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

**General:** Eye irritation. Harmful if inhaled. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

**Inhalation:** Harmful if inhaled.

**Skin Contact:** May cause skin irritation. May cause an allergic skin reaction.
Carbon Disulfide
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Eye Contact: Causes serious eye irritation.
Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: Causes damage to organs through prolonged or repeated exposure. May damage fertility. May damage the unborn child.

Indication of Any Immediate Medical Attention and Special Treatment Needed
If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES
Extinguishing Media
Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture
Fire Hazard: Highly flammable liquid and vapor.
Explosion Hazard: May form flammable/explosive vapor-air mixture.
Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters
Precautionary Measures Fire: Not available
Firefighting Instructions: Exercise caution when fighting any chemical fire.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

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: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety practice. Do not allow product to spread into the environment.

For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).
Emergency Procedures: Ventilate area.

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

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.

Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE
Precautions for Safe Handling
Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment.
Carbon Disulfide

Storage Area: Store in a well-ventilated place. Keep cool.

Specific End Use(s) For the manufacture of viscose rayon, cellophane films, rubber vulcanization accelerators, xanthates, pharmaceutical intermediates (such as thiocarbanilide and thiocyanates), mercaptoethyamine, and several fungicides, soil fumigants, insecticides and their intermediates. Carbon disulfide is used as a solvent for rubbers, waxes, fats, oils, plastics, sulfur, phosphorus, selenium, bromine and iodine.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Carbon disulfide (75-15-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (ppm)</td>
<td>20 ppm</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (Ceiling) (ppm)</td>
<td>30 ppm</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (mg/m³)</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>USA IDLH US IDLH (ppm)</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Alberta OEL TWA (mg/m³)</td>
<td>3.1 mg/m³</td>
</tr>
<tr>
<td>Alberta OEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>British Columbia OEL STEL (ppm)</td>
<td>12 ppm</td>
</tr>
<tr>
<td>British Columbia OEL TWA (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>Manitoba OEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>New Brunswick OEL TWA (mg/m³)</td>
<td>31 mg/m³</td>
</tr>
<tr>
<td>New Brunswick OEL TWA (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador OEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Nova Scotia OEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Nunavut OEL STEL (mg/m³)</td>
<td>62 mg/m³</td>
</tr>
<tr>
<td>Nunavut OEL STEL (ppm)</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Nunavut OEL TWA (mg/m³)</td>
<td>31 mg/m³</td>
</tr>
<tr>
<td>Nunavut OEL TWA (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Northwest Territories OEL STEL (mg/m³)</td>
<td>62 mg/m³</td>
</tr>
<tr>
<td>Northwest Territories OEL STEL (ppm)</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Northwest Territories OEL TWA (mg/m³)</td>
<td>31 mg/m³</td>
</tr>
<tr>
<td>Northwest Territories OEL TWA (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Ontario OEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Prince Edward Island OEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Québec VECD (mg/m³)</td>
<td>36 mg/m³</td>
</tr>
<tr>
<td>Québec VECD (ppm)</td>
<td>12 ppm</td>
</tr>
<tr>
<td>Québec VEMP (mg/m³)</td>
<td>12 mg/m³</td>
</tr>
<tr>
<td>Québec VEMP (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>Saskatchewan OEL STEL (ppm)</td>
<td>15 ppm</td>
</tr>
<tr>
<td>Saskatchewan OEL TWA (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Yukon OEL STEL (mg/m³)</td>
<td>90 mg/m³</td>
</tr>
<tr>
<td>Yukon OEL STEL (ppm)</td>
<td>30 ppm</td>
</tr>
<tr>
<td>Yukon OEL TWA (mg/m³)</td>
<td>60 mg/m³</td>
</tr>
<tr>
<td>Yukon OEL TWA (ppm)</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

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Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical goggles or safety glasses.
Skin and Body Protection: Not available
Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
Thermal Hazard Protection: Wear suitable protective clothing.
Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless, Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Disagreeable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Evaporation Rate (butylacetate=1)</td>
<td>10.9</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-111.66 °C (-169°F)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>46.12 °C (115°F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-30.15 °C (-22.3°F) Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>Critical temperature</td>
<td>272.9 °C (523.2°F)</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>90 °C (194°F)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>1 - 3 %</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>50 %</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>39.7 kPa (297.6 mm Hg)</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>2.6 Air = 1</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.266</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Partial</td>
</tr>
<tr>
<td></td>
<td>Ethanol: Soluble</td>
</tr>
<tr>
<td></td>
<td>Ether: Soluble</td>
</tr>
<tr>
<td></td>
<td>Organic solvent: Soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not expected to present an explosion hazard due to mechanical impact.</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Static discharge could act as an ignition source.</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical Stability: Product is stable. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame.
Hazardous Decomposition Products: Carbon oxides (CO, CO2), Sulphur oxides. May release flammable gases.

SECTION 11: TOXICOLOGICAL INFORMATION
Information on Toxicological Effects - Product

Acute Toxicity: Harmful if inhaled.
LD50 and LC50 Data: Not available
Carbon Disulfide

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Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Causes serious eye irritation.
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (peripheral nervous system, central nervous system, cardiovascular system, eye) through prolonged or repeated exposure (Inhalation, Dermal).
Reproductive Toxicity: Possible risk of impaired fertility, May damage the unborn child (Inhalation, Dermal).
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Potential Adverse Human Health Effects and Symptoms: Harmful if inhaled.
Symptoms/Injuries After Inhalation: Harmful if inhaled.
Symptoms/Injuries After Skin Contact: May cause skin irritation. May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact: Causes serious eye irritation.
Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: Causes damage to organs through prolonged or repeated exposure. May damage fertility. May damage the unborn child.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Carbon disulfide (75-15-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>3188 mg/kg</td>
</tr>
<tr>
<td>LC50 Inhalation Rat (mg/l)</td>
<td>10.35 mg/l (Exposure time: 4 h)</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Ecology - General: Toxic to aquatic life.

Carbon disulfide (75-15-0)

| LC50 Fish 1 | 3 (3 - 5.8) mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static]) |
| EC50 Daphnia 1 | 2.1 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 4 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static]) |

Persistence and Degradability

Carbon Disulfide (75-15-0)
Persistence and Degradability: Not established. May cause long-term adverse effects in the environment.

Bioaccumulative Potential

Carbon Disulfide (75-15-0)
Bioaccumulative Potential: Not established.

BCF fish 1

<table>
<thead>
<tr>
<th>Carbon disulfide (75-15-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>4.3 (4.3 - 8)</td>
</tr>
</tbody>
</table>

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.

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

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

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name: CARBON DISULFIDE
Carbon Disulfide

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Hazard Class: 3
Identification Number: UN1131
Label Codes: 3, 6.1
Packing Group: I
ERG Number: 131

14.2 In Accordance with IMDG
Proper Shipping Name: CARBON DISULPHIDE
Hazard Class: 3
Identification Number: UN1131
Packing Group: I
Label Codes: 3, 6.1
EmS-No. (Fire): F-E
EmS-No. (Spillage): S-D

14.3 In Accordance with IATA
Proper Shipping Name: CARBON DISULPHIDE
Identification Number: UN1131
Hazard Class: 3
Label Codes: 3, 6.1
ERG Code (IATA): 3HP

14.4 In Accordance with TDG
Proper Shipping Name: CARBON DISULPHIDE
Packing Group: I
Hazard Class: 3
Identification Number: UN1131
Label Codes: 3, 6.1

SECTION 15: REGULATORY INFORMATION

US Federal Regulations
Carbon Disulfide (75-15-0)
SARA Section 311/312 Hazard Classes
Immediate (acute) health hazard
Delayed (chronic) health hazard
Fire hazard

Carbon disulfide (75-15-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 302 (Specific toxic chemical listings)
Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag: T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 302 Threshold Planning Quantity (TPQ): 10000
SARA Section 313 - Emission Reporting: 1.0 %

US State Regulations
Carbon disulfide (75-15-0)
U.S. - California - Proposition 65 - Developmental Toxicity
WARNING: This product contains chemicals known to the State of California to cause birth defects.

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
WARNING: This product contains chemicals known to the State of California to cause (Female) reproductive harm.

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
WARNING: This product contains chemicals known to the State of California to cause (Male) reproductive harm.

Carbon disulfide (75-15-0)
U.S. - Massachusetts - Right To Know List
**Carbon Disulfide**

**Safety Data Sheet**

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| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) List |

**Canadian Regulations**

**Carbon Disulfide (75-15-0)**

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
<th>Class B Division 2 - Flammable Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects</td>
</tr>
<tr>
<td></td>
<td>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</td>
</tr>
<tr>
<td></td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carbon disulfide (75-15-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List) inventory.</td>
</tr>
<tr>
<td>Listed on the Canadian Ingredient Disclosure List</td>
</tr>
</tbody>
</table>

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** : 05/02/15

**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**:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Inhalation)</th>
<th>Acute toxicity (inhalation) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Inhalation:dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>Reproductive toxicity Category 2</td>
</tr>
<tr>
<td>STOT RE 1</td>
<td>Specific target organ toxicity (repeated exposure) Category 1</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>

**Party Responsible for the Preparation of This Document**

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