1. PRODUCT AND COMPANY IDENTIFICATION

Product Name
Xylenes, mixed isomers with ethylbenzene

Cat No.
S71233; X3-F1GAL; X3-P1GAL; X3RB-50; X3S-4; X3S-20; X3S-200; X4-4; X4-20; X4-P1GAL; X5-1; X5-4; X5-20; X5-200; X5-500; X5FB-19; X5FB-50; X5FB-115; X5FB-200; X5FB-P1GAL; X5RB-50; X5RB-115; X5RB-200; X5RS-19; X5RS-28; X5RS-50; X5RS-115; X5RS-200; X5S-4; X5SK-4; X5SS-28; X5SS-50; X5SS-115; X5SS-200; X16-4; HC7001GAL; 22-110-676

Synonyms
Xylol; Methyltoluene.; Dimethylbenzene (Histological/Laboratory/Certified ACS/Scintanalyzed)

Recommended Use
Laboratory chemicals

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

2. HAZARDS IDENTIFICATION

WARNING!
Flammable liquid and vapor. Possible cancer hazard. May cause cancer based on animal data. Harmful if absorbed through skin or if inhaled. Causes eye, skin, and respiratory tract irritation. Inhalation may cause central nervous system effects. Aspiration hazard if swallowed - can enter lungs and cause damage.

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

Emergency Overview

Target Organs
Central nervous system (CNS), Eyes, Respiratory system, Skin, Liver, Kidney, Blood

Physical State
Liquid

Odor
aromatic

Appearance
Clear

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes
Irritating to eyes.

Skin
Harmful in contact with skin. Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation
Harmful by inhalation. Irritating to respiratory system. Inhalation may cause central nervous system effects.

Ingestion
Aspiration hazard. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Effects
Possible cancer hazard based on tests with laboratory animals. Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse liver effects. May cause adverse kidney effects. Prolonged skin contact may defat the skin and produce dermatitis.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions
Central nervous system disorders. Preexisting eye disorders. Skin disorders.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Haz/Non-haz</th>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>1330-20-7</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>4</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

**Skin Contact**
Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Inhalation**
Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention.

**Ingestion**
Do not induce vomiting. Obtain medical attention.

**Notes to Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Flash Point**
25.6 - 32.2°C / 78.1 - 90°F

**Method**
No information available.

**Autoignition Temperature**
527°C / 980.6°F

**Explosion Limits**

- **Upper**
  7.0 vol %

- **Lower**
  1.1 vol %

**Suitable Extinguishing Media**
CO₂, dry chemical, dry sand, alcohol-resistant foam.

**Unsuitable Extinguishing Media**
Water may be ineffective

**Hazardous Combustion Products**
No information available.

- **Sensitivity to mechanical impact**
  No information available.

- **Sensitivity to static discharge**
  No information available.

**Specific Hazards Arising from the Chemical**
Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing.

Environmental Precautions
Should not be released into the environment.

Methods for Containment and Clean Up
Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling
Use only under a chemical fume hood. Wear personal protective equipment. Use explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures**
Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
</table>
| Xylenes (o-, m-, p- isomers) | TWA: 100 ppm  
STEL: 150 ppm | (Vacated) TWA: 100 ppm  
(Vacated) STEL: 150 ppm  
TWA: 100 ppm  
TWA: 435 mg/m³  
TWA: 435 mg/m³ | IDLH: 800 ppm  
TWA: 100 ppm  
TWA: 345 mg/m³  
TWA: 345 mg/m³ |
| Ethyl benzene           | TWA: 100 ppm  
STEL: 125 ppm | (Vacated) TWA: 100 ppm  
(Vacated) STEL: 125 ppm  
TWA: 100 ppm  
TWA: 435 mg/m³  
TWA: 435 mg/m³ | TWA: 100 ppm  
STEL: 125 ppm  
TWA: 345 mg/m³  
TWA: 345 mg/m³ |

<table>
<thead>
<tr>
<th>Component</th>
<th>Quebec</th>
<th>Mexico OEL (TWA)</th>
<th>Ontario TWAEV</th>
</tr>
</thead>
</table>
| Xylenes (o-, m-, p- isomers) | TWA: 100 ppm  
TWA: 434 mg/m³  
STEL: 150 ppm  
STEL: 651 mg/m³ | TWA: 100 ppm  
TWA: 345 mg/m³  
STEL: 125 ppm  
STEL: 545 mg/m³ | TWA: 100 ppm  
STEL: 150 ppm |
| Ethyl benzene           | TWA: 100 ppm  
TWA: 434 mg/m³  
STEL: 125 ppm  
STEL: 543 mg/m³ | TWA: 100 ppm  
TWA: 345 mg/m³  
STEL: 125 ppm  
STEL: 545 mg/m³ | TWA: 100 ppm  
STEL: 125 ppm |

**NIOSH IDLH:** Immediately Dangerous to Life or Health

**Personal Protective Equipment**

**Eye/face Protection**
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

**Skin and body protection**
Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection**
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Clear</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>aromatic</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>8.29 mmHg @ 25 °C</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>(Air = 1.0)</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>Boiling Point/Range</strong></td>
<td>136 - 140°C / 276.8 - 284°F</td>
</tr>
<tr>
<td><strong>Melting Point/Range</strong></td>
<td>-34°C / -29.2°F</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>25.6 - 32.2°C / 78.1 - 90°F</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>(Butyl Acetate = 1.0)</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>0.865 (H2O=1)</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Insoluble in water</td>
</tr>
</tbody>
</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>106.17</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C8H10</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Stability**
Stable under normal conditions.

**Conditions to Avoid**
Incompatible products. Heat, flames and sparks.

**Incompatible Materials**
Strong oxidizing agents, Strong acids

**Hazardous Decomposition Products**
Carbon monoxide (CO), Carbon dioxide (CO₂), Aldehydes, Hydrocarbons

**Hazardous Polymerization**
Hazardous polymerization does not occur

**Hazardous Reactions**
None under normal processing.

11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

<table>
<thead>
<tr>
<th>Component Information</th>
<th>LD₅₀ Oral</th>
<th>LD₅₀ Dermal</th>
<th>LC₅₀ Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>4300 mg/kg (Rat)</td>
<td>1700 mg/kg (Rabbit)</td>
<td>29.08 mg/L [MOE Risk Assessment Vol.1, 2002]</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>3500 mg/kg (Rat)</td>
<td>15354 mg/kg (Rabbit)</td>
<td>17.2 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

**Irritation**
Irritating to eyes, respiratory system and skin

**Toxicologically Synergistic Products**
No information available.

**Chronic Toxicity**

**Carcinogenicity**
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl benzene</td>
<td>A3</td>
<td>Group 2B</td>
<td>Not listed</td>
<td>X</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH: (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Possibly Carcinogenic to Humans

**Sensitization**
No information available.
12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>Not listed</td>
<td>7.711-9.591 mg/L LC50 96 h</td>
<td>EC50 = 0.0084 mg/L 24 h</td>
<td>0.6 mg/L LC50 = 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30.26-40.75 mg/L LC50 96 h</td>
<td></td>
<td>3.82 mg/L LC50 = 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23.53-29.97 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.661-4.093 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13.5-17.3 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13.1-16.5 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>780 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>1.7 - 7.6 mg/L EC50 96 h</td>
<td>9.6 mg/L LC50 96 h</td>
<td>EC50 = 9.68 mg/L 30 min</td>
<td>1.8 - 2.4 mg/L EC50 48 h</td>
</tr>
<tr>
<td></td>
<td>2.6 - 11.3 mg/L EC50 72 h</td>
<td>11.0-18.0 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.6 mg/L EC50 = 72 h</td>
<td>7.55-11 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>438 mg/L EC50 &gt; 96 h</td>
<td>9.1-15.6 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>32 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.2 mg/L LC50 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.82 mg/L 48 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available

Bioaccumulation/ Accumulation
No information available

Mobility

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>3.15</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>3.118</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

<table>
<thead>
<tr>
<th>Component</th>
<th>RCRA - U Series Wastes</th>
<th>RCRA - P Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers) - 1330-20-7</td>
<td>U239</td>
<td>-</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No                             UN1307
**14. TRANSPORT INFORMATION**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>XYLENES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
</tbody>
</table>

**TDG**

<table>
<thead>
<tr>
<th>UN-No</th>
<th>UN1307</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>XYLENES</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
</tbody>
</table>

**IATA**

<table>
<thead>
<tr>
<th>UN-No</th>
<th>UN1307</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>XYLENES</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
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</tbody>
</table>

**IMDG/IMO**

<table>
<thead>
<tr>
<th>UN-No</th>
<th>UN1307</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>XYLENES</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
</tbody>
</table>

**15. REGULATORY INFORMATION**

### International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ENCS</th>
<th>PICCS</th>
<th>AICS</th>
<th>CHINA</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>215-535-7</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>T</td>
<td>X</td>
<td>-</td>
<td>202-849-4</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Legend:**
- X - Listed
- E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - Indicates a commenced PMN substance
- R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

**TSCA 12(b)** Not applicable
SARA 313

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p-) isomers</td>
<td>1330-20-7</td>
<td>96</td>
<td>1.0</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>4</td>
<td>0.1</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Categorization

- Acute Health Hazard: Yes
- Chronic Health Hazard: Yes
- Fire Hazard: Yes
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

Clean Water Act

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Hazardous Substances</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p-) isomers</td>
<td>X</td>
<td>100 lb</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>X</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Clean Air Act

<table>
<thead>
<tr>
<th>Component</th>
<th>HAPS Data</th>
<th>Class 1 Ozone Depletors</th>
<th>Class 2 Ozone Depletors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p-) isomers</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OSHA

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p-) isomers</td>
<td>100 lb</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>1000 lb</td>
<td>-</td>
</tr>
</tbody>
</table>

California Proposition 65

This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
<th>Prop 65 NSRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>Carcinogen</td>
<td>54 µg/day</td>
</tr>
</tbody>
</table>

State Right-to-Know

<table>
<thead>
<tr>
<th>Component</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p-) isomers</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. Department of Transportation

- Reportable Quantity (RQ): Y
- DOT Marine Pollutant: N
- DOT Severe Marine Pollutant: N
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade
Serious risk, Grade 3

Canada

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

WHMIS Hazard Class
B2  Flammable liquid
D2A Very toxic materials
D2B  Toxic materials

16. OTHER INFORMATION

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Revision Summary
“***”, and red text indicates revision

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS