SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: Proseal LE-365

Product Code(s) :

F0615 /MDC200v3 - LE-365 US

Recommended use of the chemical and restrictions on use

: Spray foam.

Recommended restrictions: None known.

Chemical family :

Mixture

Name, address, and telephone number of the supplier:

Icynene Inc.
6747 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L7
(800) 758-7325

Supplier's Telephone #

(613) 996-6666

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical


This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Acute toxicity, oral - Category 4
Eye Damage/Irritation - Category 1
Skin Irritation - Category 2
Reproductive Toxicity - Category 2
Specific target organ toxicity, single exposure - Category 2 (kidney)

Label elements

Hazard pictogram(s)

Signal Word

Danger

Hazard statement(s)

Harmful if swallowed.
Causes serious eye damage.
Causes skin irritation.
Suspected of damaging fertility or the unborn child.
May cause damage to organs (kidneys) through prolonged or repeated exposure.
SAFETY DATA SHEET

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist or vapor.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Call a poison center/driver if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Burning produces obnoxious and toxic fumes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS #</th>
<th>Concentration (% by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>2,2'-Oxydiethanol</td>
<td>111-46-6</td>
<td>30.0 - 40.0</td>
</tr>
<tr>
<td></td>
<td>Bis(2-hydroxyethyl) ether DEG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pentfluorobutane</td>
<td>Butane, 1,1,1,3,3-pentafluoro-</td>
<td>406-58-6</td>
<td>10.0 - 30.0</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>Phosphoric trichloride, reaction products with propylene oxide</td>
<td>1244733-77-4</td>
<td>5.0 - 10.0</td>
</tr>
<tr>
<td>1,2-Ethanediamine, N-[2- (dimethylamino)ethyl]-N,N',N'-trimethyl-</td>
<td>Pentamethyldiethylenetriamine PMDT</td>
<td>3030-47-5</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>Bis(3-dimethyaminopropyl)</td>
<td>N,N-bis[3- (dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine</td>
<td>33329-35-0</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>Ethylene glycol monobutyl ether butyl cellosolve Glycol Ether EB EGBE</td>
<td>111-76-2</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>1,2-Ethanediol</td>
<td>107-21-1</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td></td>
<td>1,2-Dihydroxyethane EG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro-</td>
<td>Not available.</td>
<td>431-89-0</td>
<td>1.0 - 5.0</td>
</tr>
</tbody>
</table>

The exact concentrations of the above listed chemicals are being withheld as a trade secret.
SAFETY DATA SHEET

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.

Eye contact : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed : Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Can cause irritation, redness, tearing, and blurred vision and/or eye damage. Suspected of damaging fertility or the unborn child. May cause damage to the kidneys through prolonged or repeated exposure if swallowed. Ingestion may cause severe irritation to the mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability : Burning produces obnoxious and toxic fumes. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.


Hazardous combustion products : Carbon dioxide and carbon monoxide.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
SAFETY DATA SHEET

Methods and material for containment and cleaning up

- Ventilate the area. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

- Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage

- Store in cool/well-ventilated place. Store locked up. Protect from sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking.

Incompatible materials

- Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>10 mg/m³ (AIHA WEEL)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Pentfluorobutane</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N',N'-trimethyl-</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Bis[3-dimethylaminopropyl</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>20 ppm</td>
<td>N/Av</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>100 mg/m³ (aerosol) (Ceiling)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro-</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

Exposure controls

Ventilation and engineering measures

- Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.
SAFETY DATA SHEET

Respiratory protection : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves/clothing. Advice should be sought from glove suppliers.

Eye / face protection : Wear eye/face protection. Tightly fitting safety goggles

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations : Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Brown liquid.
Odour : Amine odour.
Odour threshold : No information available.

pH : Not available.

Melting/Freezing point : No information available.

Initial boiling point and boiling range : N/Av

Flash point : Not flammable

Flashpoint (Method) : N/Av

Evaporation rate (BuAe = 1) : N/Ap

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.) : Not applicable.

Upper flammable limit (% by vol.) : Not applicable.

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : N/Av

Vapour density : N/Av

Relative density / Specific gravity : Not available.

Solubility in water : Soluble

Other solubility(ies) : No information available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : No information available.

Auto-ignition temperature : No information available.

Decomposition temperature : No information available.

Viscosity : Not available.

Volatile (% by weight) : N/Av

Volatile organic Compounds (VOC's) : N/Av

Absolute pressure of container : Not applicable.

Flame projection length : Not applicable.
SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions:
- Hazardous polymerization does not occur.

Conditions to avoid:
- Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Protect from sunlight.

Incompatible materials:
- See Section 7 (Handling and Storage) for further details.

Hazardous decomposition products:
- See Section 5 (Fire Fighting Measures).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Routes of entry inhalation: YES
- Routes of entry skin & eye: YES
- Routes of entry Ingestion: YES
- Routes of exposure skin absorption: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation
- May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.

Sign and symptoms ingestion
- Harmful if swallowed. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Sign and symptoms skin
- Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Sign and symptoms eyes
- Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result.

Potential Chronic Health Effects
- Chronic skin contact with low concentrations may cause dermatitis.

Mutagenicity
- Not expected to be mutagenic in humans.

Carcinogenicity
- No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity
- This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive Toxicity - Category 2 - Suspected of damaging fertility or the unborn child. Contains ethylene glycol, which may cause teratogenic effects at doses which are not maternally toxic, based on animal data.

Sensitization to material
- Not expected to be a skin or respiratory sensitizer.
SAFETY DATA SHEET

Specific target organ effects: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Repeated Exposure - Category 2

May cause damage to the kidneys through prolonged or repeated exposure. Ethylene glycol may cause kidney stones and kidney damage if ingested.

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Medical conditions aggravated by overexposure:

Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials:

No information available.

Toxicological data:

There is no data available for this product. The calculated ATE values for this mixture are: ATE oral = 1129.98 mg/kg
ATE dermal = 12727.27 mg/kg

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC₅₀(4hr) inh. rat (aerosol)</th>
<th>LC₅₀(4hr) inh. rat (Oral, rat)</th>
<th>LD₅₀ (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>&gt; 4.6 mg/L (aerosol) (No mortality)</td>
<td>19 600 mg/kg (rat)</td>
<td>12 500 mg/kg</td>
</tr>
<tr>
<td>Pentafluorobutane</td>
<td>100000 ppm</td>
<td>&gt;2000mg/kg</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>&gt; 4.6 mg/L (aerosol) (No mortality) (Read-across)</td>
<td>632 - 2000 mg/kg (Read-across)</td>
<td>&gt; 2000 mg/kg (No mortality) (Read-across)</td>
</tr>
<tr>
<td>1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N,N'-trimethyl-</td>
<td>6.15 mg/L</td>
<td>1630 µL/kg</td>
<td>280 µL/kg</td>
</tr>
<tr>
<td>Bis(3-dimethylaminopropyl</td>
<td>1.8 mg/L (aerosol)</td>
<td>2385 mg/kg</td>
<td>1120 mg/kg</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>450 ppm (2.175 mg/L) (vapour)</td>
<td>530 mg/kg</td>
<td>400 - 500 mg/kg</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>4300 ppm (10.92 mg/L) (aerosol)</td>
<td>4000 mg/kg (rat)</td>
<td>9530 mg/kg</td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro-</td>
<td>&gt;788696 ppm</td>
<td>N/Ap</td>
<td>N/Ap</td>
</tr>
</tbody>
</table>

Other important toxicological hazards:

None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be harmful to aquatic organisms. Do not release, unmonitored, into the environment.
## Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC50 / 96h</td>
<td>NOEC / 21 day</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>77 900 mg/L (Fathead minnow)</td>
<td>7694 mg/L (30 days) (QSAR)</td>
</tr>
<tr>
<td>Pentfluorobutane</td>
<td>406-58-6</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>1244733-77-4</td>
<td>51 mg/L (Fathead minnow) (Read-across)</td>
<td>5.2 mg/L (QSAR) (Read-across)</td>
</tr>
<tr>
<td>1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N',N'-trimethyl-</td>
<td>3030-47-5</td>
<td>220 mg/L (Golden orfe)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Bis(3-dimethylaminopropyl)</td>
<td>33329-35-0</td>
<td>92.5 mg/L (Zebra fish) (Read-across)</td>
<td>N/Av</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>1490 mg/L (Bluegill sunfish)</td>
<td>&gt; 100 mg/L (Zeba fish)</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>22 810 mg/L (Rainbow trout)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro-</td>
<td>431-89-0</td>
<td>&gt;200 mg/L</td>
<td>N/Av</td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

### Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Partition coefficient n-octanol/water (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol (CAS 111-46-6)</td>
<td>- 1.47 (estimated)</td>
<td>3 (estimated)</td>
<td></td>
</tr>
<tr>
<td>Pentfluorobutane (CAS 406-58-6)</td>
<td>1.61</td>
<td>N/Av</td>
<td></td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate (CAS 1244733-77-4)</td>
<td>2.59</td>
<td>1.9-4.6</td>
<td></td>
</tr>
<tr>
<td>1,2-Ethanediame, N-[2-(dimethylamino)ethyl] -N,N',N'-trimethyl- (CAS 3030-47-5)</td>
<td>&lt;-2.1</td>
<td>3.162</td>
<td></td>
</tr>
<tr>
<td>Bis(3-dimethylaminopropyl) (CAS 33329-35-0)</td>
<td>0 - 0.05</td>
<td>0.3-2</td>
<td></td>
</tr>
<tr>
<td>2-butoxyethanol (CAS 111-76-2)</td>
<td>0.8</td>
<td>0.97</td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>- 1.36</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro- (CAS 431-89-0)</td>
<td>2.289</td>
<td>N/Av</td>
<td></td>
</tr>
</tbody>
</table>

### Persistence and degradability
- No data is available on the product itself.

### Bioaccumulation potential
- No data is available on the product itself.

### Mobility in soil
- The product itself has not been tested.

### Other Adverse Environmental effects
- None known.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal**
- Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
SAFETY DATA SHEET

Methods of Disposal: DO NOT REUSE CONTAINER. Container residuals may pose hazards similar to the product. Empty containers should be managed as a waste in accordance with local, state, provincial or federal regulations, including proper characterization as hazardous or non-hazardous waste, and either offered for recycle or drum reconditioning, or properly disposing of the container.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
</tbody>
</table>

Special precautions for user: Appropriate advice on safety must accompany the package.

Environmental hazards: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:
Components listed below are present on the following U.S. Federal chemical lists:
**SAFETY DATA SHEET**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>TSCA Inventory</th>
<th>CERCLA Reportable Quantity(RQ)</th>
<th>SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:</th>
<th>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical Toxic Chemical</th>
<th>de minimus Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>Yes</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Pentfluorobutane</td>
<td>406-58-6</td>
<td>Yes</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>1244733-77-4</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N',N'-trimethyl-</td>
<td>3030-47-5</td>
<td>Yes</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Bis(3-dimethylaminopropyl)</td>
<td>33329-35-0</td>
<td>Yes</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>Yes</td>
<td>5000 lb/ 2270 kg</td>
<td>None.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro-</td>
<td>431-89-0</td>
<td>Yes</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes; Serious eye damage; Skin irritation; Reproductive toxicity; Specific target organ toxicity, repeated exposure; Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>California Proposition 65 Listed</th>
<th>Type of Toxicity</th>
<th>State “Right to Know” Lists</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>No</td>
<td>N/Av</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pentfluorobutane</td>
<td>406-58-6</td>
<td>No</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>1244733-77-4</td>
<td>No</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N',N'-trimethyl-</td>
<td>3030-47-5</td>
<td>No</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Bis(3-dimethylaminopropyl)</td>
<td>33329-35-0</td>
<td>No</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>No</td>
<td>N/Av</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>No</td>
<td>N/Av</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro-</td>
<td>431-89-0</td>
<td>No</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Canadian Information:**

Canadian Environmental Protection Act (CEPA): All ingredients listed appear on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL). WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.
SAFETY DATA SHEET

International Information:
Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS  #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECL/KECI</th>
<th>China IECSC</th>
<th>NewZealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>203-872-2</td>
<td>Present</td>
<td>Present</td>
<td>(2)-415; (2)-2979</td>
<td>KE-27694</td>
<td>Present</td>
<td>HSR002709</td>
</tr>
<tr>
<td>Pentafluorobutane</td>
<td>406-58-6</td>
<td>N/Av</td>
<td>Present</td>
<td>N/Av</td>
<td>(2)-3992</td>
<td>2002-3-2034</td>
<td>Present</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>1244733-77-4</td>
<td>911-815-4</td>
<td>Present</td>
<td>Present</td>
<td>(2)-3729, (2)-2951</td>
<td>KE-05678</td>
<td>Present</td>
<td>HSR004044</td>
</tr>
<tr>
<td>1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N',N'-trimethyl-</td>
<td>3030-47-5</td>
<td>221-201-1</td>
<td>Present</td>
<td>Present</td>
<td>(2)-147</td>
<td>KE-11153</td>
<td>Present</td>
<td>HSR003583</td>
</tr>
<tr>
<td>Bis(3-dimethylaminopropyl)</td>
<td>33329-35-0</td>
<td>251-459-0</td>
<td>Present</td>
<td>Present</td>
<td>(2)-3225</td>
<td>KE-34804</td>
<td>Present</td>
<td>No data available.</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>203-905-0</td>
<td>Present</td>
<td>Present</td>
<td>(7)-97; (2)-407</td>
<td>KE-04134</td>
<td>Present</td>
<td>HSR001154</td>
</tr>
<tr>
<td>Propane, 1,1,1,2,3,3,3-heptafluoro-</td>
<td>431-89-0</td>
<td>207-079-2</td>
<td>Present</td>
<td>N/Av</td>
<td>(2)-3763</td>
<td>97-3-48</td>
<td>Present</td>
<td>HSR001467</td>
</tr>
</tbody>
</table>

Legend:
- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- IARC: International Agency for Research on Cancer
- DOT: Department of Transportation
- ECOTOX: U.S. EPA Ecotoxicology Database
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- IBC: Intermediate Bulk Container
- ECHA: European Chemicals Agency
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- NOEC: No observable effect concentration
- IUCST: International Uniform Chemical Information Database
- KECL: Korean Existing Chemicals Inventory
- KECI: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- NO: Not Applicable
- NJ: New Jersey
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- MN: Minnesota
- N/A: Not Available
SAFETY DATA SHEET

OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2017
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.

Preparation Date (mm/dd/yyyy): 05/31/2017
Other special considerations for handling: Provide adequate information, instruction and training for operators.

Prepared for:
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Prepared by:
ICC The Compliance Center Inc.
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http://www.thecompliancecenter.com

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