SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: LDC-50 - Classic™

Product Code(s)

: Not available.

Recommended use of the chemical and restrictions on use

: Use pattern: Spray foam.
  Professional Use Only
  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

Supplier's Telephone #

: (800) 758-7325

24 Hr. Emergency Tel #

: (613) 996-6666

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

White liquid. Amine odour.

Most important hazards: 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
Acute Toxicity, inhalation - Category 4 (vapor)
Skin Corrosion/Irritation - Category 1
Eye Damage/Irritation - Category 1
Specific Target Organ Toxicity, Single Exposure - Category 3 (respiratory)

Label elements

Hazard pictogram(s)

Signal Word

Danger

Hazard statement(s)

Harmful if swallowed or if inhaled.
Causes severe skin burns and eye damage.
May cause respiratory irritation.
SAFETY DATA SHEET

Precautionary statement(s)

Do not breathe dust or mist.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:
None known.

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>Tris(1-chloro-2-propyl) phosphate</td>
<td>Phosphoric trichloride, reaction products with propylene oxide</td>
<td>13674-84-5</td>
<td>40.0 - 50.0</td>
</tr>
<tr>
<td>1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-</td>
<td>N'-[3-(dimethylamino)propyl]-N,N-dimethylpropene-1,3-diamine</td>
<td>6711-48-4</td>
<td>1.0 - 10.0</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>2-(Dimethylamino)ethanol</td>
<td>108-01-0</td>
<td>1.0 - 3.0</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphate</td>
<td>nonyl-pheno phosphate</td>
<td>26523-78-4</td>
<td>1.0 - 3.0</td>
</tr>
</tbody>
</table>

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

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 burns. Contact may cause redness, swelling and a painful sensation. Can cause irritation, redness, tearing, and blurred vision and/or eye damage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Symptoms may include redness, itching and swelling.
SAFETY DATA SHEET

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

- Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

- Non-flammable.

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.

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

- Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Avoid breathing mist or vapours. 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. Contaminated work clothing must not be allowed out of the workplace.
SAFETY DATA SHEET

Conditions for safe storage: Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. 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>Tris(1-chloro-2-propyl) phosphate</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>1,3-Propanediamine, N’-[3- (dimethylamino)propyl] -N,N-dimethyl-</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite</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.

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. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection: Wear eye/face protection. Wear as appropriate. 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: Avoid breathing dust, mist or vapours. 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: White liquid.

Odour: Amine odor.

Odour threshold: No information available.

pH: 11

Melting/Freezing point: No information available.

Initial boiling point and boiling range: N/Av
### SAFETY DATA SHEET

**Flash point**: Not flammable at 140°F
**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**: 1.1
**Solubility in water**: Miscible.
**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**: 700 cps @ 25°C
**Volatile (% by weight)**: N/Av
**Volatile organic Compounds (VOC’s)**: N/Av
**Absolute pressure of container**: Not applicable.
**Flame projection length**: Not applicable.
**Other physical/chemical comments**: No additional information.

### 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.
**Incompatible materials**: See Section 7 (Handling and Storage) for further details. Avoid contact with incompatible materials.
**Hazardous decomposition products**: Carbon oxides.

### SECTION 11. TOXICOCOLOGICAL INFORMATION

**Information on likely routes of exposure:**
- **Routes of entry inhalation**: YES
- **Routes of entry skin & eye**: YES
- **Routes of entry Ingestion**: YES
SAFETY DATA SHEET

Routes of exposure skin absorption

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

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: Acute toxicity - Category 4 (Inhalation) - Harmful if inhaled.

May cause respiratory irritation. Symptoms may include coughing and sneezing.

Sign and symptoms ingestion

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: Acute toxicity, oral - Category 4 - Harmful if swallowed.

Sign and symptoms skin

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: Skin Irritation - Category 1 - Causes severe skin burns.

Sign and symptoms eyes

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: Eye Damage/Irritation - Category 1 - Causes serious eye damage.

Potential Chronic Health Effects

Mutagenicity

Not expected to be mutagenic in humans.

Carcinogenicity

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

Reproductive effects & Teratogenicity

Not expected to cause reproductive effects.

Sensitization to material

Not expected to be a skin or respiratory sensitizer.

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, Single Exposure -Category 3 (respiratory) - May cause respiratory irritation.

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

Medical conditions aggravated by overexposure

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

Synergistic materials

No information available.

Toxicological data

SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC₅₀ (4hr inh, rat)</th>
<th>LD₅₀ (Oral, rat)</th>
<th>LD₅₀ (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tris(1-chloro-2-propyl) phosphate</td>
<td>5 mg/L 4 h</td>
<td>500 mg/kg</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>1,3-Propanediamine, N'-(3- (dimethylamino)propyl) -N,N-dimethyl-</td>
<td>N/Av</td>
<td>1620 µL/kg</td>
<td>N/Av</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>6.1 mg/L 4 h</td>
<td>1803 mg/kg</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite</td>
<td>N/Av</td>
<td>10000 mg/kg</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

**Other important toxicological hazards:** None reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Do not release, unmonitored, into the environment.

**Ecotoxicity data:**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC₅₀ / 96h</td>
</tr>
<tr>
<td>Tris(1-chloro-2-propyl) phosphate</td>
<td>13674-84-5</td>
<td>N/Av</td>
</tr>
<tr>
<td>1,3-Propanediamine, N'-(3- (dimethylamino)propyl) -N,N-dimethyl-</td>
<td>6711-48-4</td>
<td>N/Av</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>108-01-0</td>
<td>96 Hr LC₅₀ Pimephales promelas: 81 mg/L [static]</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite</td>
<td>26523-78-4</td>
<td>96 Hr LC₅₀ Brachydanio rerio: &lt;10 mg/L [static]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC₅₀ / 48h</td>
</tr>
<tr>
<td>Tris(1-chloro-2-propyl) phosphate</td>
<td>13674-84-5</td>
<td>: 63 mg/L</td>
</tr>
<tr>
<td>1,3-Propanediamine, N'-(3- (dimethylamino)propyl) -N,N-dimethyl-</td>
<td>6711-48-4</td>
<td>N/Av</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>108-01-0</td>
<td>48 Hr EC₅₀ Daphnia magna: 96.77 mg/L</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite</td>
<td>26523-78-4</td>
<td>48 Hr EC₅₀ Daphnia magna: 0.42 mg/L</td>
</tr>
</tbody>
</table>
### Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tris(1-chloro-2-propyl) phosphate</td>
<td>13674-84-5</td>
<td>EC50 / 96h or 72h: 45 mg/L, NOEC / 96h or 72h: N/Av, M Factor: N/Av</td>
</tr>
<tr>
<td>1,3-Propanediamine, N’-[3-(dimethylamino)propyl]-N,N-dimethyl-</td>
<td>6711-48-4</td>
<td>EC50 / 96h or 72h: N/Av, NOEC / 96h or 72h: N/Av, M Factor: N/Av</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>108-01-0</td>
<td>72 Hr EC50 Desmodesmus subspicatus: 35 mg/L, NOEC / 96h or 72h: N/Av, M Factor: N/Av</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite</td>
<td>26523-78-4</td>
<td>NOEC / 96h or 72h: N/Av, M Factor: N/Av</td>
</tr>
</tbody>
</table>

**Persistence and degradability**: Not expected to be rapidly biodegradable.

**Bioaccumulation potential**: No data is available on the product itself.

### Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient n-octanol/water (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tris(1-chloro-2-propyl) phosphate (CAS 13674-84-5)</td>
<td>2.59</td>
<td>N/Av</td>
</tr>
<tr>
<td>1,3-Propanediamine, N’-[3-(dimethylamino)propyl]-N,N-dimethyl- (CAS 6711-48-4)</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2- (CAS 108-01-0)</td>
<td>-0.55 at 23 °C</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite (CAS 26523-78-4)</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

**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.

**Methods of Disposal**: Dispose in accordance with all applicable federal, state, provincial and local regulations.

**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. TRANSPORT 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>49CFR/DOT</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional information</td>
<td></td>
<td></td>
<td></td>
<td></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>
<tr>
<td>IMDG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional information</td>
<td></td>
<td></td>
<td></td>
<td></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>ICAO/IATA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Environmental hazards**: 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) (40 CFR 117.302):</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>Tris(1-chloro-2-propyl) phosphate</td>
<td>13674-84-5</td>
<td>Yes</td>
<td>N/Ap</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1,3-Propanediamine, N’-[3-(dimethylamino)propyl]-N,N-dimethyl-</td>
<td>6711-48-4</td>
<td>Yes</td>
<td>N/Ap</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>108-01-0</td>
<td>Yes</td>
<td>N/Ap</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite</td>
<td>26523-78-4</td>
<td>Yes</td>
<td>N/Ap</td>
<td>N/Av</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA TITLE III:  Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard. 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</th>
<th>State “Right to Know” Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tris(1-chloro-2-propyl) phosphate</td>
<td>13674-84-5</td>
<td>No</td>
<td>CA: No, MA: No, MN: No, NJ: No, PA: No, RI: No</td>
</tr>
<tr>
<td>1,3-Propanediamine, N’-[3-(dimethylamino)propyl]-N,N-dimethyl-</td>
<td>6711-48-4</td>
<td>No</td>
<td>CA: No, MA: No, MN: No, NJ: No, PA: No, RI: No</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphite</td>
<td>26523-78-4</td>
<td>No</td>
<td>CA: No, MA: No, MN: No, NJ: No, PA: No, RI: 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.

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

International Information:
Components listed below are present on the following International Inventory list:
## SAFETY DATA SHEET

<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</th>
<th>China IECSC</th>
<th>NewZealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tris(1-chloro-2-propyl) phosphate</td>
<td>13674-84-5</td>
<td>237-158-7</td>
<td>Present</td>
<td>Present</td>
<td>(2)-3729; (2)-2951</td>
<td>KE-05878</td>
<td>Present</td>
<td>HSR004044</td>
</tr>
<tr>
<td>1,3-Propanediamine, N'-[3- (dimethylamino)propyl]-N,N-dimethyl-</td>
<td>6711-48-4</td>
<td>229-761-9</td>
<td>Present</td>
<td>Present</td>
<td>(2)-353; (2)-297</td>
<td>KE-11494</td>
<td>Present</td>
<td>HSR002971</td>
</tr>
<tr>
<td>Dimethylaminoethanol, 2-</td>
<td>108-01-0</td>
<td>203-542-8</td>
<td>Present</td>
<td>Present</td>
<td>(3)-2544; (3)-2530; (3)</td>
<td>KE-26237</td>
<td>Present</td>
<td>HSR003629</td>
</tr>
<tr>
<td>Tris(nonylphenol)phosphate</td>
<td>26523-78-4</td>
<td>247-759-6</td>
<td>Present</td>
<td>Present</td>
<td>(3)-2544; (3)-2530; (3)</td>
<td>KE-26237</td>
<td>Present</td>
<td>HSR003629</td>
</tr>
</tbody>
</table>

### SECTION 16. OTHER INFORMATION

**Legend:**
- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- ATE: Acute Toxicity Estimate
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- ECHA: European Chemicals Agency
- ECOTOX: U.S. EPA Ecotoxicology Database
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods
- IOC: Inventory of Chemicals
- IUCLID: International Uniform Chemical Information Database
- KECL: Korean Existing Chemicals List
- KECI: Korean Existing Chemicals Inventory
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NJ: New Jersey
- NOEC: No observable effect concentration
- NTP: National Toxicology Program
- 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
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 2014.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012 version.
6. California Proposition 65 List - December 26, 2014 version

Preparation Date (mm/dd/yyyy): 09/02/2015
Reviewed Date SDS (dd/mm/yyyy): 05/01/2017
Revision No. : 2
Revision Information : (M)SDS sections updated
2. HAZARDS IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
11. TOXICOLOGICAL INFORMATION

Other special considerations for handling:
Provide adequate information, instruction and training for operators.

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