MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : MASTERS LEAK DETECTOR
Product Code(s) : LD059; LD20L; LD227; LD4L; LD500
Product Use : Leak Detector
Chemical Family : Mixture.
Supplier’s name and address: G.F. Thompson Company Ltd.
Manufacturer’s name and address: Refer to Supplier

620 Steven Court
Newmarket, ON, Canada
L3Y 6Z2

Information Telephone # : (905) 898-2557 (Monday to Friday, 7:30 am - 5:00 pm, Eastern Standard Time)
24 Hr. Emergency Tel # : (905) 252-4793

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:
Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

OSHA:  This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:
Acute Health Hazard

May cause moderate to severe eye irritation. May cause mild to moderate skin irritation. May cause respiratory irritation.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : Inhalation of vapours can cause nasal and respiratory irritation.
Skin : May cause mild to moderate skin irritation.
Eyes : May cause moderate to severe irritation.
Ingestion : Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea.

Effects of long-term (chronic) exposure

: Prolonged skin contact may cause skin irritation. Excessive ingestion of this product may cause kidney effects.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.
Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.
Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>Wt.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>40.00 - 60.00</td>
</tr>
<tr>
<td>Dipotassium phosphate</td>
<td>7758-11-4</td>
<td>1.00 - 3.00</td>
</tr>
<tr>
<td>Alcohols, C11-14-iso-, C13-rich, ethoxylated</td>
<td>78330-21-9</td>
<td>0.10 - 1.00</td>
</tr>
</tbody>
</table>
SECTION 4 - FIRST AID MEASURES

Inhalation: If inhaled, move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention if irritation develops and persists.

Skin contact: Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation or symptoms develop, seek medical attention.

Eye contact: Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

Ingestion: Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person. Call a physician.

Notes For Physician: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: Not flammable under normal conditions of handling. However, may ignite if exposed to extreme heat and flame.

Flammability classification (OSHA 29 CFR 1910.1200): Combustible Liquid Class III B.

Oxidizing properties: Not expected to be sensitive to mechanical impact or static discharge.

Explosion data: Sensitivity to mechanical impact / static discharge: Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Special fire-fighting procedures/equipment: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products: Carbon oxides ;Nitrogen oxides and phosphorus oxides.

NFPA Rating: 0 - Minimal | 1 - Slight | 2 - Moderate | 3 - Serious
Health: 2 | Flammability: 1 | Instability: 0 | Special Hazards: None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.

Environmental precautions: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Spill response/cleanup: Ventilate area of release. Stop spill or leak at source if safely possible. 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). Notify the appropriate authorities as required.

Prohibited materials: None known.

Special spill response procedures: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): None reportable.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures: Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers closed when not in use. Wash hands thoroughly after handling.
Section 8 - Exposure Controls and Personal Protection

### Exposure Limits

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>*10 mg/m³</td>
<td>N/Av</td>
</tr>
<tr>
<td>Dipotassium phosphate</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Alcohols, C11-14-iso-, C13-rich, ethoxylated</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

*Note: The ACGIH TLV listed above for Propylene glycol is an AIHA WEEL.

### Ventilation and engineering measures

- Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

### Respiratory protection

- If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Advice should be sought from respiratory protection specialists. 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.

### Skin protection

- For prolonged or repeated contact use protective gloves. Advice should be sought from glove suppliers.

### Eye / face protection

- Chemical goggles are recommended when there is a potential for splashing.

### Other protective equipment

- Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

### General hygiene considerations

- Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Handle in accordance with good industrial hygiene and safety practice.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>Odourless.</td>
</tr>
<tr>
<td>pH</td>
<td>N/Av</td>
</tr>
<tr>
<td>Boiling point</td>
<td>N/Av</td>
</tr>
<tr>
<td>Melting/Freezing point</td>
<td>N/Av</td>
</tr>
<tr>
<td>Vapour pressure (mmHg @ 20° C / 68° F)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Vapour density (Air = 1)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Volatile organic Compounds (VOC's)</td>
<td>499.6 g/l</td>
</tr>
<tr>
<td>Flash point</td>
<td>N/Av</td>
</tr>
<tr>
<td>Flash point Method</td>
<td>N/Av</td>
</tr>
<tr>
<td>Lower flammable limit (% by vol.)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>N/Av</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>N/Av</td>
</tr>
<tr>
<td>Coefficient of water/oil distribution</td>
<td>N/Av</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>soluble</td>
</tr>
<tr>
<td>Evaporation rate (n-Butyl acetate = 1)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Volatiles (% by weight)</td>
<td>49%</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>N/Av</td>
</tr>
<tr>
<td>Upper flammable limit (% by vol.)</td>
<td>N/Av</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity: Stable under the recommended storage and handling conditions prescribed.
Hazardous polymerization: Will not occur.
Conditions to avoid: Avoid excessive heat, sparks and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.

Materials To Avoid And Incompatibility:
- Strong oxidizing agents, acids and bases.

Hazardous decomposition products:
- None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs: Eyes, skin, respiratory system and digestive system.
Routes of exposure:
- Inhalation: YES
- Skin Absorption: NO
- Skin & Eyes: YES
- Ingestion: YES

Toxicological data:
- There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>LC50(4hr) inh. rat</th>
<th>LD50 (Oral, rat)</th>
<th>LD50 (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>N/A</td>
<td>21800 mg/kg</td>
<td>20800 mg/kg</td>
</tr>
<tr>
<td>Dipotassium phosphate</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Alcohols, C11-14-isoo-, C13-rich, ethoxylated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Carcinogenic status: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects: Not expected to cause reproductive effects.
Teratogenicity: Not expected to be a teratogen.
Mutagenicity: Not expected to be mutagenic in humans.
Epidemiology: None known or reported by the manufacturer.
Sensitization to material: Not expected to be a skin or respiratory sensitizer.
Synergistic materials: None known or reported by the manufacturer.
Irritancy: Moderate to severe eye irritant. Mild to moderate skin irritant.
other important hazards: Prolonged or repeated skin contact may cause irritation, defatting or dermatitis (rash). Excessive ingestion of this product may cause kidney effects.
Conditions aggravated by overexposure: Pre-existing skin, respiratory, renal or nervous system disorders.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
- See the following tables for individual ingredient ecotoxicity data.

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>Propylene glycol</td>
<td>57-55-6</td>
<td>&gt; 18,000 mg/L</td>
</tr>
<tr>
<td>Dipotassium phosphate</td>
<td>7758-11-4</td>
<td>&gt; 100 mg/L (Japanese rice fish)</td>
</tr>
<tr>
<td>Alcohols, C11-14-isoo-, C13-rich, ethoxylated</td>
<td>78330-21-9</td>
<td>N/A</td>
</tr>
<tr>
<td>Ingredients</td>
<td>CAS No</td>
<td>Toxicity to Daphnia</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>EC50 / 48h &gt; 18,000 mg/L</td>
</tr>
<tr>
<td>Dipotassium phosphate</td>
<td>7758-11-4</td>
<td>NOEC / 21 day N/Av</td>
</tr>
<tr>
<td>Alcohols, C11-14-iso-, C13-rich, ethoxylated</td>
<td>78330-21-9</td>
<td>M Factor N/Ap</td>
</tr>
</tbody>
</table>

Mobility: No data is available on the product itself.
Persistence: Propylene glycol is considered to be readily biodegradable.
Bioaccumulation potential: No data is available on the product itself.
Other Adverse Environmental effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle waste according to recommendations in Section 7.
Methods of Disposal: Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules. Contact your local, state or federal environmental agency for specific rules.

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>Shipping Name</th>
<th>Class</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>TDG Additional information</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT Additional information</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<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: Toxic Chemical</th>
<th>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical de minimus Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>Yes</td>
<td>N/Ap</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Dipotassium phosphate</td>
<td>7758-11-4</td>
<td>Yes</td>
<td>N/Ap</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Alcohols, C11-14-iso-, C13-rich, ethoxylated</td>
<td>78330-21-9</td>
<td>Yes</td>
<td>N/Ap</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Acute 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 for 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>California Proposition 65 Type of Toxicity</th>
<th>State &quot;Right to Know&quot; 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>Propylene glycol</td>
<td>57-55-6</td>
<td>No</td>
<td>N/Ap</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>Dipotassium phosphate</td>
<td>7758-11-4</td>
<td>No</td>
<td>N/Ap</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>Alcohols, C11-14-iso-, C13-rich, ethoxylated</td>
<td>78330-21-9</td>
<td>No</td>
<td>N/Ap</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:

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

SECTION 16 - OTHER INFORMATION

HMIS Rating: * Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
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
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
References:

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2013.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2013 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012 version.

Prepared for:
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Newmarket, ON, Canada L3Y 6Z2
Telephone: (905) 898-2557
Direct all enquiries to:  G.F. Thompson Co. Ltd

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

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Preparation Date (mm/dd/yyyy):
05/15/2013

END OF DOCUMENT