## 1 Identification

- **Product identifier:** LTR1-10F, LTR1-16, LTR1-1G, LTR1-5G, LTR1-DR
- **Trade name:** CANTESCO® LOW TEMP RED
- **Item number(s):** LTR1-10F, LTR1-16, LTR1-1G, LTR1-5G, LTR1-DR
- **MSDS Number:** 54
- **UPC bar code(s):** 10275, 10280, 10285, 10290
- **Application of the substance / the mixture:** LEAK DETECTION COMPOUND
- **Manufacturer/Supplier:**
  WWW.CANTESCO.COM

**USA ADDRESS:**
KEMPER SYSTEM AMERICA, INC.
1200 NORTH AMERICA DR,
WEST SENeca, NY 14224
PH (716) 558-2971

**CANADIAN ADDRESS:**
KEMPER SYSTEM CANADA
6345 NETHERHART ROAD
MISSISSAUGA, ON L5T 1B8
PH (905) 624-5463
FAX (905) 624-2840

- **Information department:**
  Tel: (716) 558-2971 ext. 228
  www.cantesco.com
- **Emergency telephone number:**
  ChemTrec (800) 424-9300
  Canada only: CANUTEC (Call collect) (613) 996-6666

## 2 Hazard(s) identification

- **Classification of the substance or mixture:**
  - GHS08 Health hazard
  - Specific Target Organ Toxicity - Repeated Exposure - Category 2
  - H373 May cause damage to the kidneys through prolonged or repeated exposure.
  - GHS07
  - Acute Toxicity (Oral) - Category 4
  - H302 Harmful if swallowed.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Signal word:** Warning

(Contd. on page 2)
Trade name: CANTESCO® LOW TEMP RED

- **Hazard-determining components of labeling:**
  - ethylene glycol
- **Hazard statements:**
  - Harmful if swallowed.
  - May cause damage to the kidneys through prolonged or repeated exposure.
- **Precautionary statements:**
  - Do not breathe dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - Get medical advice/attention if you feel unwell.
  - Rinse mouth.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
- **NFPA ratings (scale 0 - 4):**
  - Health = 2
  - Fire = 0
  - Reactivity = 0

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
  - **Description:** Mixture of the substances listed below with nonhazardous additions.

#### Dangerous components:

| 107-21-1 | ethylene glycol | 30-60% w/w |

- **Additional information:** Exact concentrations are being withheld as trade secrets.

### 4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- **After swallowing:** Call a poison center/doctor if you feel unwell. Rinse mouth.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**
  - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Protective equipment:** No special measures required.
6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **Reference to other sections:** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- **Handling**
  - **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
  - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** None.
  - **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Short-term value</th>
<th>Long-term value</th>
<th>Ceiling limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL (Canada)</td>
<td>20** mg/m³</td>
<td>10** mg/m³</td>
<td>100* mg/m³, 50*** ppm</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>100 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>NIC-127* NIC-10** mg/m³, NIC-50* ppm</td>
<td>NIC-63,5* mg/m³, NIC-25* ppm</td>
<td>(100) mg/m³</td>
</tr>
<tr>
<td></td>
<td>(H); *inh. fraction + vapor,P:**inh. fraction, H</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
**9 Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Red</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>(\text{pH-value at } 20,^\circ\text{C})</td>
<td>7</td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>-23 °C</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>93 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>410 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>3,2 Vol %</td>
</tr>
<tr>
<td>Upper</td>
<td>53,0 Vol %</td>
</tr>
<tr>
<td>Vapor pressure at (20,^\circ\text{C})</td>
<td>23 hPa</td>
</tr>
<tr>
<td>Density at (20,^\circ\text{C})</td>
<td>1,057 g/cm³</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density at (20,^\circ\text{C})</td>
<td>.610 (AIR=1)</td>
</tr>
<tr>
<td>Evaporation rate at (20,^\circ\text{C})</td>
<td>1 (BA=1)</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Fully miscible.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content</td>
<td></td>
</tr>
<tr>
<td>Organic solvents</td>
<td>0,0 %</td>
</tr>
<tr>
<td>Solids content</td>
<td>0,4 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
Trade name: CANTESCO® LOW TEMP RED

- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects:
  - Acute toxicity
    - LD/LC50 values that are relevant for classification:
      - 107-21-1 ethylene glycol
        - Oral LD50 5840 mg/kg (rat)
        - Dermal LD50 9530 mg/kg (rabbit)
  - Primary irritant effect
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - None of the ingredients is listed.
  - NTP (National Toxicology Program)
    - None of the ingredients is listed.

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
14 Transport information

- UN-Number
  - DOT, TDG, ADN, IMDG, IATA: Not regulated

- UN proper shipping name
  - DOT, TDG, ADN, IMDG, IATA: Not regulated

- Transport hazard class(es)
  - DOT, TDG, ADN, IMDG, IATA
    - Class: Not regulated

- Packing group
  - DOT, TDG, IMDG, IATA: Not regulated

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user: Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

- UN "Model Regulation": Not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara

- Section 355 (extremely hazardous substances):
  - None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):
  - 107-21-1 ethylene glycol
  - 3251-23-8 copper dinitrate

- TSCA (Toxic Substances Control Act):
  - All ingredients are listed or exempted

- Proposition 65
  - Chemicals known to cause cancer:
    - None of the ingredients is listed.

  - Chemicals known to cause reproductive toxicity for females:
    - None of the ingredients is listed.

  - Chemicals known to cause reproductive toxicity for males:
    - None of the ingredients is listed.
Trade name: CANTESCO® LOW TEMP RED

· Chemicals known to cause developmental toxicity:
  - 107-21-1 ethylene glycol

· Canadian substance listings
  · Canadian Domestic Substances List (DSL/NDSL):
    - All ingredients are listed.
  · Canadian Ingredient Disclosure list (limit 0.1%):
    - None of the ingredients is listed.
  · Canadian Ingredient Disclosure list (limit 1%):
    - 107-21-1 ethylene glycol

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms
    - GHS07
    - GHS08

· Signal word Warning

· Hazard-determining components of labeling:
  - ethylene glycol

· Hazard statements
  - Harmful if swallowed.
  - May cause damage to the kidneys through prolonged or repeated exposure.

· Precautionary statements
  - Do not breathe dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - Get medical advice/attention if you feel unwell.
  - Rinse mouth.

16 Other information

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. Kemper System America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Kemper System America, Inc. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Kemper System America, Inc is an ISO 9001:2008 and ISO 14001:2004 registered company.

· Department issuing SDS: Product safety department
· Contact: Stephen Nowicki
· Date of preparation / last revision 11/23/2016 / -
· Abbreviations and acronyms:
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
| **NFPA: National Fire Protection Association (USA)** |
| **VOC: Volatile Organic Compounds (USA, EU)** |
| **LC50: Lethal concentration, 50 percent** |
| **LD50: Lethal dose, 50 percent** |