1 Identification

- **Product identifier:** CF1-REG, CF1-1G, CF1-5G, CF1-DR
- **Trade name:** CANTESCO® COOLING FLUID CF1 REGULAR
- **Item number(s):** CF1-REG, CF1-1G, CF1-5G, CF1-DR
- **MSDS Number:** 46
- **UPC bar code(s):** 11200, 11205, 11210
- **Application of the substance / the mixture** COOLING FLUID
- **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

(Contd. on page 2)
Safety Data Sheet  
acc. to OSHA HCS & WHMIS

Trade name: CANTESCO® COOLING FLUID CF1 REGULAR

- Hazard-determining components of labeling:
  ethylene glycol
  benzotriazole
- 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 10-30% w/w
- Additional information: Exact concentrations are being withheld as trade secrets.

4 First-aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- 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).
- **Reference to other sections:**
  - No dangerous substances are released.
  - 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:** No special measures required.
  - **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):** Cooling fluid for welding systems

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>Substance</th>
<th>Short-term</th>
<th>Long-term</th>
<th>Ceiling limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1 ethylene glycol</td>
<td>20** mg/m³</td>
<td>10** mg/m³</td>
<td>100* mg/m³, 50*** ppm</td>
</tr>
<tr>
<td></td>
<td>(EL)</td>
<td></td>
<td>100* mg/m³, 50*** ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100* mg/m³, 50*** ppm</td>
</tr>
<tr>
<td></td>
<td>(EV)</td>
<td></td>
<td>100 mg/m³</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:** The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves:** Protective gloves not normally required. People with sensitive skin may prefer to wear water-proof gloves, such as rubber or neoprene, to avoid skin contact.
9 Physical and chemical properties

- **Form:** Liquid
- **Color:** Colorless
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value at 20 °C:** 6
- **Change in condition**
  - Melting point/Melting range: -7 °C
  - Boiling point/Boiling range: 93 °C
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 410 °C
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits**
  - Lower: 3,2 Vol %
  - Upper: 53,0 Vol %
- **Vapor pressure at 20 °C:** 23 hPa
- **Density at 20 °C:** 1,025 g/cm³
- **Relative density:** Not determined.
- **Vapour density at 20 °C:** .610 (AIR=1)
- **Evaporation rate at 20 °C:** 1,0 (BA=1)
- **Solubility in / Miscibility with Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content**
  - Organic solvents: 0,0 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
Trade name: CANTESCO® COOLING FLUID CF1 REGULAR

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)
    - Specific symptoms in biological assay: No further relevant information available.
    - Primary irritant effect: No irritant effect.
    - on the skin: No irritating effect.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
  - 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: Smaller quantities can be disposed of with household waste.
- Uncleaned packagings
  - Recommendation: Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.
Trade name: CANTESCO® COOLING FLUID CF1 REGULAR

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

| · UN-Number | Not regulated |
| · DOT, TDG, ADN, IMDG, IATA | Not regulated |
| · UN proper shipping name | Not regulated |
| · DOT, TDG, ADN, IMDG, IATA | Not regulated |
| · Transport hazard class(es) | Not regulated |
| · DOT, TDG, ADN, IMDG, IATA | Not regulated |
| · Class | Not regulated |
| · Packing group | Not regulated |
| · DOT, TDG, IMDG, IATA | Not regulated |
| · Environmental hazards: | No |
| · 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
    - 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.
    - Chemicals known to cause developmental toxicity:
      - 107-21-1 ethylene glycol
  - Canadian substance listings
    - Canadian Domestic Substances List (DSL/NDSL):
      All ingredients are listed.
Trade name: CANTESCO® COOLING FLUID CF1 REGULAR

- 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](image)
  ![GHS08](image)

- Signal word  Warning

- Hazard-determining components of labeling:
  ethylene glycol
  benzotriazole

- 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.
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  Rinse mouth.
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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
  DOT: US Department of Transportation
  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)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent