CANTESCO® welding chemical products

Safety Data Sheet
according to HPR & OSHA

Date of issue 01/02/2026 | Version number 1 | Revision: 02/13/2025

1 Identification

· **Product identifier:** CF2-MID, CF2-1G, CF2-5G, CF2-DR

· **Trade name: CANTESCO® COOLING FLUID CF2 MID**
· **Other means of identification**
· **Item number(s):** CF2-MID, CF2-1G, CF2-5G, CF2-DR
· **SDS Number:** 47
· **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:
ABICOR GROUP CANADA, INC.
4-7075 EDWARDS BLVD
MISSISSAUGA, ONTARIO, L5S 1Z2
PH (905) 624-5463

· **Information department:**
Tel: (716) 558-2971 ext. 228
www.cantesco.com
· **Emergency telephone number:**
Hazmat Line: (888) 890-9049 /+1(656) 240-3099 (International number)
Canada only: CANUTEC (Call collect) (613) 996-6666

2 Hazard 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

· **Hazard-determining components of labeling:**
ethylene glycol
benzotriazole
· **Hazard statements:**
H302 Harmful if swallowed.
H373 May cause damage to the kidneys through prolonged or repeated exposure.
· **Precautionary statements:**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**
· **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 *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· **General information:** Symptoms of poisoning may even occur after several hours.
· **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).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

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· **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

· **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):** Cooling fluid for welding systems

8 Exposure controls/ Personal protection

· **Components with limit values that require monitoring at the workplace:**

107-21-1 ethylene glycol	
EL (Canada)	STEL: 20* mg/m³ TWA: 10* mg/m³ Ceiling: 100* mg/m³, 50** ppm *total, aerosol only; **Vapour
EV (Canada)	Ceiling: 100 mg/m³
TLV (USA)	STEL: 10** mg/m³, 50* ppm TWA: 25* ppm *vapor fraction:**inh. fraction, aerosol only, A4
WEEL (USA)	I (2)

· **Additional information:** The lists that were valid during the creation were used as basis.
· **Appropriate engineering controls** No further data; see section 7.
· **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.
· **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.
· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Color:**	Colorless
· **Odor:**	Odorless
· **Odor threshold:**	Not determined

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· **Melting point/Melting range:**	-14 °C
· **Boiling point/Boiling range:**	93 °C
· **Flammability:**	Not applicable
· **Explosion limits**	
· **Lower:**	3.2 Vol %
· **Upper:**	53 Vol %
· **Flash point:**	Not applicable
· **Auto igniting:**	410 °C
· **Decomposition temperature:**	Not determined
· **pH-value at 20 °C:**	6
· **Viscosity:**	
· **Kinematic:**	Not determined
· **Dynamic:**	Not determined
· **Solubility in / Miscibility with**	
· **Water:**	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined
· **Vapor pressure at 20 °C:**	23 hPa
· **Vapor pressure:**	
· **Density at 20 °C:**	1.045 g/cm³
· **Relative density:**	Not determined
· **Vapor density at 20 °C:**	.610 (AIR=1)
· **Particle characteristics**	Not applicable

· **Other information**	
· **Form:**	Liquid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **VOC content:**	0.0 g/l / 0.00 lb/gal
· **Change in condition**	
· **Evaporation rate at 20 °C:**	1 (BA=1)

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions:**
Reacts with oxidizing agents.
Reacts with strong acids.
Reacts with strong alkali.
· **Conditions to avoid:** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects:**
· **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**		
107-21-1 ethylene glycol		
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	9,530 mg/kg (rabbit)

· **Specific symptoms in biological assay:** No further relevant information available.
· **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.
· **Bioaccumulative potential:** No further relevant information available.
· **Mobility in soil:** No further relevant information available.
· **Other adverse effects:**
· **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.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

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14 Transport information

· **UN-Number**	
· **DOT/TDG, ADR, ADN, IMDG, IATA**	Not regulated
· **UN proper shipping name**	
· **DOT/TDG, ADR, ADN, IMDG, IATA**	Not regulated
· **Transport hazard class(es)**	
· **DOT/TDG, ADR, ADN, IMDG, IATA**	
· **Class**	Not regulated
· **Packing group**	
· **DOT/TDG, ADR, IMDG, IATA**	Not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**	Not applicable
· **Special precautions for user:**	Not applicable
· **UN "Model Regulation":**	Not regulated

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **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.

· **Canadian Non-Domestic Substances List (NDSL)**
None of the ingredients is listed.

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· **Canadian Ingredient Disclosure list (limit 0.1%):**
None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

107-21-1	ethylene glycol

· **Per- and polyfluoroalkyl substances (PFAS)**
None of the ingredients is listed.

· **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
benzotriazole
· **Hazard statements**
H302 Harmful if swallowed.
H373 May cause damage to the kidneys through prolonged or repeated exposure.

16 Other information

This SDS format meets OSHA 1910.1200 and HPR 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. Copyright 2026 Kemper System America, Inc. License granted to make unlimited paper copies for internal use only.

· **Department issuing SDS:** Product safety department
· **Contact:** Stephen Nowicki
· **Date of previous version** 11/01/2024
· **Date of preparation** 01/02/2026
· **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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent