



Material Safety Data Sheet

FIR No.: 184942
Version Number: CA-EN-1

Level: 1
Release Date: 2009-12-17

1. Product and Company Identification

Product Name: Premium Gold Engine Coolant
Product Code: See Attachment
Application: Engine Antifreeze/Coolant
Supplier: Ford Motor Company of Canada
 Oakville, Ontario L6J 5E4
 1-800-392-3673

Emergency Telephone: Poison Control Center: 1-800-959-3673
 CHEMTREC: U.S. and Canada: 1-800-424-9300
 CHEMTREC: International: 1-703-527-3887

2. Composition/Information on Ingredients

This chemical product is a preparation.

Chemical Name	CAS Number	Percent Concentration	Hazard Classification
ETHYLENE GLYCOL	107-21-1	60-100	ACGIH/OSHA CAA-HAP HAZCOM LOCAL REV 1 PEL/TLV-US RQ WHMIS 1 SARA 313
SODIUM TETRABORATE	1330-43-4	1-5	ACGIH/OSHA PEL/TLV-US HAZCOM WHMIS 1

3. Hazards Identification

WARNING

Health: Harmful or fatal if swallowed.
 Aspiration hazard if swallowed; can enter lungs and cause damage.
 May cause skin, eye and respiratory tract irritation.
 Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
 Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting.
 Exposure may increase myocardial irritability.
 Overexposure may cause central nervous system effects.
 Overexposure may cause liver and kidney damage.
 Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
 This product may cause delayed neurotoxicity.



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Environment: Material contains a chemical which is a Hazardous Air Pollutant (HAP), regulated by the United States Clean Air Act.

4. First-Aid Measures

Inhalation: If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If irritation persists, get medical attention.

Skin Contact: For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

Eye Contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical attention. If irritation persists, get medical attention.

Ingestion: If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Most Important Symptoms Effects: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Notes to a Physician: If the affected person is not breathing, apply artificial respiration. If the affected person's breathing is difficult, give oxygen. This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

5. Fire-Fighting Measures

Extinguishing Media: EXTINGUISHER INFORMATION: Dry chemical, foam, carbon dioxide, water fog.

Specific Methods: Use water to cool fire-exposed containers, structures, and to protect personnel.

Specific Hazards: Water or foam may cause frothing if the product is heated above 93 degrees C (200 degrees F). Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

Protection of Firefighters: Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.



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6. Accidental Release Measures

Personal Precautions: Ventilate the contaminated area.
Avoid inhalation of vapors and contact with skin and eyes.
Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions: Do not allow the spilled product to enter public drainage system or open water courses.
Do not allow this material to drain into sewers/water supplies.

Methods for Cleaning Up: Contain the discharged material.
Absorb the spilled material and scrape it up.

7. Handling and Storage

Handling:

Technical Measures: Keep this product from heat, sparks, or open flame.

Precautions and Advice for Safe Handling: Do not breathe gas/fumes/vapor/spray.
Do not get this material in your eyes, on your skin, or on your clothing.
Keep the container closed when not in use.
Use with adequate ventilation.

Storage: Technical Measures: Do not reuse the empty container.

Storage Conditions: Do not store this material in open or unlabeled containers.
Keep the container tightly closed and in a cool, well-ventilated place.



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8. Exposure Controls/Personal Protection

Engineering Measures:

Eyewash and emergency showers are recommended.
ENGINEERING CONTROL: Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust, and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

Exposure Limits:

Chemical Name	TWA	STEL/C	References	Notes
ETHYLENE GLYCOL		C 100(mg/m3)	ACGIH	
SODIUM TETRABORATE	Note		ACGIH	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic); 6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)

Personal Protective Equipment:

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

Hand Protection:

Wear solvent-resistant gloves made of neoprene, vinyl or rubber.

Eye Protection:

Wear chemical goggles; face shield (if splashing is possible).

Skin and Body Protection:

Wear protective clothing sufficient to cover exposed skin surfaces. Remove contaminated clothing and wash before reuse.

Hygiene Measures:

Wash thoroughly after handling.
 When using this material, do not eat, drink or smoke.



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9. Physical and Chemical Properties

Specific Gravity: 1.13
Physical State: LIQUID
Odor: MILD GLYCOL
Color: PALE YELLOW
pH: 8.1 33.3% V/V

Temperature Range During which Changes in Physical State Occur:

Boiling Point: 165.5 °C

Flash Point: 121.1 °C COC

Explosion Properties:

UEL: 15.3 %

LEL: 3.2 %

Vapor Pressure: 1.8@20°C mmHg

Solubility: COMPLETE IN WATER

Viscosity: N.AP

Evaporation Rate: <1 Ether = 1

10. Stability and Reactivity

Stability: This is a stable material.
 Hazardous polymerization will not occur.

Conditions and Materials to Avoid: This product may react with strong acids.
 This product may react with strong alkalies.
 This product may react with strong oxidizing agents (bleach--sodium hypochlorite, calcium hypochlorite, hydrogen peroxide, permanganate, nitric acid, concentrated OXYGEN, perchlorates).

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.



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11. Toxicological Information

107-21-1 ETHYLENE GLYCOL
Skin, adult rabbit, LD50 = 9530 mg/kg
532-32-1 SODIUM BENZOATE
Oral, adult rat, LD50 = 4070 mg/kg
107-21-1 ETHYLENE GLYCOL
Oral, adult rat, LD50 = 4700 mg/kg

Inhalation: Excessive inhalation of vapors from this product may cause weakness, dizziness, confusion and numbness of limbs.

Skin Contact: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Chronic (Long Term) Toxicity: Ethylene glycol has been fetotoxic and teratogenic in rats and mice, which has been confirmed by independent studies. The actual reproductive hazard of ethylene glycol in humans is unknown.

12. Ecological Information

No specific aquatic data available for this product.

13. Disposal Considerations

Waste from Residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation. Empty containers may contain hazardous residues (vapors, liquid, and/or solid). Do not reuse the empty container without commercial cleaning or reconditioning.

Contaminated Packaging: No consideration given when disposed of according to local, state, and Federal regulations.



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14. Transport Information

U.S. Department of Transportation (DOT) 49 - CFR 172.101

This product is not regulated as a dangerous good.

Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II

This product is not regulated as a dangerous good.

Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)

This product is not regulated as a dangerous good.

International and Domestic Air Transportation - ICAO & IATA Section 4.2

This product is not regulated as a dangerous good.

International Water Transportation - IMDG Code Amendment 31-02

This product is not regulated as a dangerous good.

15. Regulatory Information

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

CLASS D DIVISION 2 SUBDIVISION A: Poisonous/Infectious Material Causing Other Toxic Effects - Very Toxic Material

This product contains an ingredient present on the WHMIS (1.0%) Ingredient Disclosure List.

Material contains a chemical which is a Ford Motor Company Material of Concern. Use and release of this material should be minimized to the greatest extent possible.

16. Other Information

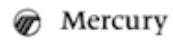
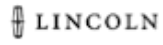
Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacture's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA.

Disclaimer:

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



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Attachment

Product Code	Container Size	Part of Kit	Kit Product Code
CVC-7-B	1 U.S. gallon (3.78 L)		
CVC-7-BP	Pallet		
CVC-7-BTL	Truckload		