1. Identification

Product identifier: COMPLEAT EG PREMIX (ETHYLENE GLYCOL BASED COOLANT)

Other means of identification:

SDS number: LT16583
Product code: CC2801, CC2855, CC2857, CC2899, CC2897, CC2728, CC2859

Recommended use: Not available.

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:

Manufacturer:
Company name: Cummins Filtration
Address: 1200 Fleetguard Road
Cookeville, TN 38506
United States
Telephone: 24 Hours per day 1-800-22FILTER (1-800-223-4583)
E-mail: Not available.
Emergency phone number:
Within Continental U.S.: Chemtrec 1-800-424-9300
Outside U.S.: Chemtrec 703-527-3887
Supplier: Refer to Manufacturer

2. Hazard(s) identification

Physical hazards: This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazards:
- Acute toxicity, oral Category 4
- Reproductive toxicity Category 2
- Specific target organ toxicity, single exposure Category 2
- Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
- Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards: This mixture does not meet the classification criteria according to OSHA HazCom 2012.

OSHA defined hazards: This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements:

Signal word: Warning

Hazard statement: Harmful if swallowed. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs.

Precautionary statement:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Call a poison center/doctor. Rinse mouth.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)  
Human poison by ingestion (lethal dose of Ethylene glycol for humans reported to be 100 mL). Symptoms of poisoning may include cyanosis (bluish discolouration of the skin), nausea, dizziness, rapid heartbeat, irregular breathing, coma and death. Initially, the central nervous system is stimulated, followed by depression. Prolonged or repeated ingestion may cause bladder or kidney stones.

Supplemental information  
Not applicable.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>Glycol alcohol 1,2-ETHANEDIOL</td>
<td>107-21-1</td>
<td>40 - 60</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>2-(2-HYDROXYETHOXY)ETHANOL BIS(2-HYDROXYETHYL) ETHER</td>
<td>111-46-6</td>
<td>0.1 - 0.5</td>
</tr>
<tr>
<td>Sodium Nitrite</td>
<td>Nitrous acid, sodium salt</td>
<td>7632-00-0</td>
<td>0.1 - 0.3</td>
</tr>
</tbody>
</table>

Other components below reportable levels  1.78

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation  
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact  
Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact  
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion  
Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed  
Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Indication of immediate medical attention and special treatment needed  
Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information  
IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media  
Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media  
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical  
The following may be released during a fire: Carbon oxides. Formaldehyde.

Special protective equipment and precautions for firefighters  
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions  
Move containers from fire area if you can do so without risk.

Specific methods  
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards  
No unusual fire or explosion hazards noted.

Hazardous combustion products  
Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures  
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Wear safety glasses with side shields (or goggles).

Wear protective gloves.

Wear appropriate chemical-resistant clothing.

In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Physical state: Liquid.
Form: Liquid.
Color: Pink
Odor: Characteristic odour.
Odor threshold: Not available.

pH: 10.0 - 10.5
Melting point/freezing point: Not available.
Initial boiling point and boiling range
224.6 °F (107 °C)

Flash point
Not available.

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%)
  Not available.
- Flammability limit - upper (%)
  Not available.
- Explosive limit - lower (%)
  Not available.
- Explosive limit - upper (%)
  Not available.

Vapor pressure
0.05 mm Hg @ 20°C

Vapor density
2.1

Relative density
Not available.

Solubility(ies)
- Solubility (water) completely miscible
- Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

Other information
- Specific gravity 1.04 - 1.07

10. Stability and reactivity
Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Contact with incompatible materials.

Incompatible materials

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

11. Toxicological information
Information on likely routes of exposure
Inhalation
Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause damage to organs by inhalation. May cause irritation to the respiratory system.

Skin contact
Direct skin contact may cause slight or mild, transient irritation.

Eye contact
Direct contact with eyes may cause temporary irritation.

Ingestion
Kidney injury may occur. Harmful if swallowed. May cause damage to organs by ingestion.

Most important symptoms/effects, acute and delayed
Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Information on toxicological effects
Acute toxicity
Harmful if swallowed. Narcotic effects. May cause respiratory irritation.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>13300 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Material name: COMPLEAT EG PREMIX (ETHYLENE GLYCOL BASED COOLANT)
**Components**

<table>
<thead>
<tr>
<th>Test Results</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Rat</td>
<td>&gt; 5.08 mg/l</td>
<td></td>
</tr>
<tr>
<td>LD50 Rat</td>
<td>25300 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**ETHYLENE GLYCOL (CAS 107-21-1)**

**Acute**

| Dermal | LD50 Rabbit | 9530 mg/kg |

**Inhalation**

| LC50 Rat | 10.92 mg/l, 4 hours |
| LD50 Rat | 1110 - 1665 mg/kg |

**Rat 4000 mg/kg**

**Skin corrosion/irritation**

Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation**

Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

Not expected to be a respiratory sensitizer.

**Skin sensitizer**

This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.


Not listed.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure**

May cause damage to organs. Kidney injury may occur. Respiratory tract irritation. Narcotic effects. May cause damage to organs by ingestion.

**Specific target organ toxicity - repeated exposure**

Not classified as a specific target organ toxicity - repeated exposure.

**Aspiration toxicity**

Not expected to be an aspiration hazard.

**Chronic effects**

Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

**12. Ecological information**

**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fish</strong></td>
<td>LC50 Fathead minnow (Pimephales promelas)</td>
<td>77900 mg/l, 96 hours</td>
</tr>
<tr>
<td><strong>ETHYLENE GLYCOL (CAS 107-21-1)</strong></td>
<td>Acute LC50 Rainbow trout (Oncorhynchus mykiss)</td>
<td>22810 mg/l, 96 Hours</td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td><strong>Crustacea</strong> LC50 Water flea (Daphnia magna)</td>
<td>46300 - 57000 mg/l, 48 hours</td>
</tr>
<tr>
<td><strong>Algae</strong></td>
<td>IC50 Green algae (Selenastrum capricornutum)</td>
<td>10940 mg/l, 96 Hours</td>
</tr>
<tr>
<td><strong>NOEC</strong></td>
<td>Green algae (Selenastrum capricornutum)</td>
<td>10000 mg/l, 96 Hours</td>
</tr>
<tr>
<td><strong>Sodium Nitrite (CAS 7632-00-0)</strong></td>
<td>Acute LC50 Rainbow trout (Oncorhynchus mykiss)</td>
<td>0.54 mg/l, 96 hours</td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td><strong>Acute</strong> EC50 Green Algae (Scenedesmus subspicatus)</td>
<td>15.4 mg/l, 48 hours</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td>EC50 Water flea (Daphnia magna)</td>
<td>&gt; 100 mg/l, 72 hours</td>
</tr>
<tr>
<td><strong>Algae</strong></td>
<td>NOEC Green Algae (Scenedesmus subspicatus)</td>
<td>100 mg/l, 72 hours</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**
No data is available on the degradability of this product.

**Bioaccumulative potential**
No data available.

**Partition coefficient n-octanol / water (log Kow)**
- Diethylene Glycol  -1.5
- ETHYLENE GLYCOL  -1.36

**Bioconcentration factor (BCF)**
- Diethylene Glycol  3
- ETHYLENE GLYCOL  10

**Mobility in soil**
No data available.

**Other adverse effects**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**
Dispose in accordance with all applicable regulations.

**Hazardous waste code**
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

**DOT**
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not available.

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
  Sodium Nitrite (CAS 7632-00-0) 1.0 % One-Time Export Notification only.

- CERCLA Hazardous Substance List (40 CFR 302.4)
  ETHYLENE GLYCOL (CAS 107-21-1) Listed.
  Sodium Nitrite (CAS 7632-00-0) Listed.

SARA 304 Emergency release notification
Not regulated.

  Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

- Hazard categories
  Immediate Hazard - Yes
  Delayed Hazard - Yes
  Fire Hazard - No
  Pressure Hazard - No
  Reactivity Hazard - No

- SARA 302 Extremely hazardous substance
  Not listed.

- SARA 311/312 Hazardous chemical
  No

- SARA 313 (TRI reporting)
  Chemical name  CAS number  % by wt.
  ETHYLENE GLYCOL  107-21-1  40 - 60

Other federal regulations

- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  ETHYLENE GLYCOL (CAS 107-21-1)

- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
  Not listed.

- US. Massachusetts RTK - Substance List
  ETHYLENE GLYCOL (CAS 107-21-1)
  Sodium Nitrite (CAS 7632-00-0)

- US. New Jersey Worker and Community Right-to-Know Act
  ETHYLENE GLYCOL (CAS 107-21-1)
  Sodium Nitrite (CAS 7632-00-0)

- US. Pennsylvania Worker and Community Right-to-Know Law
  Diethylene Glycol (CAS 111-46-6)
  ETHYLENE GLYCOL (CAS 107-21-1)
  Sodium Nitrite (CAS 7632-00-0)

- US. Rhode Island RTK
  ETHYLENE GLYCOL (CAS 107-21-1)
Sodium Nitrite (CAS 7632-00-0)

**US. California Proposition 65**
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

**Issue date**
02-27-2015

**Version #**
01

**Disclaimer**
Prepared by: ICC The Compliance Center Inc. 1-888-442-9628
http://www.thecompliancecenter.com

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This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Cummins Filtration. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision Information**
Product and Company Identification: Product Codes
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Regulatory Information: Canada
GHS: Classification

**Bibliography**
Not available.