



**ES COMPLEAT COOLANT / EG CONCENTRATE (ETHYLENE GLYCOL BASED ANTIFREEZE)**

MSDS No.:LT16588a

MSDS Preparation Date: April 21, 2006

Page 1 of 8

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** : **ES COMPLEAT COOLANT / EG CONCENTRATE (ETHYLENE GLYCOL BASED ANTIFREEZE)**

**Product Code(s)** : CC2820 (1 Gallon / 3.785 L Bottle); CC2821 (55 gallon / 208 L Drum); CC2822 (Bulk); CC2847 (5 Gallon / 18.9 L Pail); CC2823 (Tote tanks).

**Product Use** : Concentrated antifreeze / coolant.

**Chemical Family** : Mixture.

**Supplier's name and address:**  
**Cummins Filtration**  
1200 Fleetguard Road  
Cookeville, TN, U.S.A.  
38506

**Manufacturer's name and address:**  
Refer to Supplier

**Information Telephone No.** : (931) 526-9551 (Hours of operation: 24 Hours per day, 7 days per week)

**24 Hr. Emergency Tel #** : Chemtrec (800) 424-9300 (Within Continental U.S.); Chemtrec (703) 527-3887 (Outside U.S.).

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
			<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ethylene glycol	107-21-1	90.0 - 100.0	100 mg/m3 (ceiling)	N/Av	50 ppm (125 mg/m3) (ceiling)	N/Av
Diethylene glycol	111-46-6	1.0 - 5.0 *5.0 - 10.0	10 mg/m3	N/Av	N/Av	N/Av

Note: The OSHA PEL listed above for Ethylene glycol is a final rule / vacated value. The ACGIH TLV listed above for Diethylene glycol is an AIHA WEEL.

\*Note: The % (weight) concentration of 'Diethylene glycol' will vary by batch. The ranges listed cover all potential concentration levels. Refer to Health Canada's interpretation, PIS No. 36, of the Controlled Products Regulations, Section 11(3).

**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Blue liquid. Little or no odour. Warning! Harmful or fatal if swallowed. Harmful if absorbed through the skin. May cause nausea, vomiting, headache and other central nervous system effects. Could also cause convulsions, coma, respiratory arrest and death. Can cause kidney damage. May cause liver effects. Possible birth defect hazard - contains material that may cause birth defects.

**\*\*\*POTENTIAL HEALTH EFFECTS\*\*\***

**Target organs** : Skin, respiratory system, digestive system, central nervous system, liver, kidneys.

**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

**Signs and symptoms of short-term (acute) exposure**

*Inhalation:* Toxic in particulate form by inhalation. May cause irritation to the nose, throat and upper respiratory tract. If mists are inhaled, may cause tearing, general anesthesia, headache, coughing, respiratory stimulation, nausea, vomiting, pulmonary, kidney and liver damage.

*Skin:* Direct contact may cause mild skin irritation. Product may be absorbed and cause symptoms similar to those listed for ingestion.

*Eyes:* Direct contact may cause mild eye irritation. Symptoms may include inflammation and tearing.





**ES COMPLEAT COOLANT / EG CONCENTRATE (ETHYLENE GLYCOL BASED ANTIFREEZE)**

MSDS No.:LT16588a

MSDS Preparation Date: April 21, 2006

Page 4 of 8

- Ventilation and engineering measures** : Use with adequate ventilation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : Not required under normal conditions of handling. If mists are formed, or in confined spaces, respiratory protection may be required. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.
- Skin protection** : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical splash goggles are recommended. A full face shield may also be necessary.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.
- General hygiene considerations** : Do not ingest. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. When using do not eat or drink. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.
- Permissible exposure levels** : For individual ingredient exposure levels, see Section 2.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	: Liquid.	<b>Appearance</b>	: Blue liquid.
<b>Odour</b>	: Little or no odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: 9.4 - 10.0 (100%); 10.2 - 10.8 (50%).		
<b>Boiling point</b>	: 195°C / 383°F	<b>Specific gravity</b>	: 1.11 - 1.14
<b>Melting/Freezing point</b>	: N/Av	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: 0.05	<b>Solubility in water</b>	: Complete
<b>Vapour density (Air = 1)</b>	: 2.1	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Volatile organic Compounds (VOC's)</b>	: N/Av	<b>Volatiles (% by weight)</b>	: N/Av

**SECTION 10 - REACTIVITY AND STABILITY DATA**

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Avoid heat and open flame. Do not use in areas without adequate ventilation.
- Materials To Avoid And Incompatibility** : Incompatible materials (see Section 7).
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

**ES COMPLEAT COOLANT / EG CONCENTRATE (ETHYLENE GLYCOL BASED ANTIFREEZE)**

MSDS No.:LT16588a

MSDS Preparation Date: April 21, 2006

Page 5 of 8

<u>Ingredients</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh. rat</u>	<u>LD<sub>50</sub></u>	
		<u>oral</u>	<u>dermal</u>
Ethylene glycol	N/Av	4700 mg/kg (rat)	9530 µL/kg (rabbit)
Diethylene glycol	N/Av	12,565 mg/kg (rat); 4400 mg/kg (rabbit)	11,890 mg/kg (rabbit)

- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects** : None known.
- Teratogenicity** : Contains ethylene glycol, which may cause teratogenic effects at doses which are not maternally toxic, based on animal data.
- Mutagenicity** : None known.
- Epidemiology** : Not available.
- Sensitization to material** : None known.
- Synergistic materials** : Not available.
- Irritancy** : May be mildly irritating to eyes and skin.
- other important hazards** : CNS depression may result from extreme exposures.



**SECTION 12 - ECOLOGICAL INFORMATION**

- Environmental effects** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Important environmental characteristics** : Not available.
- Ecotoxicological** : No data is available on the product itself.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

- Handling for Disposal** : Handle waste according to recommendations in Section 7.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 - TRANSPORTATION INFORMATION**


<b>Regulatory Information</b>	<b>UN Number</b>	<b>Shipping Name</b>	<b>Class</b>	<b>Packing Group</b>	<b>Label</b>
49CFR/DOT	None	Not regulated.	Not regulated	-None-	
<b>49CFR/DOT Additional information</b>	Not regulated when the quantity of Ethylene glycol is less than 5000 pounds per container. If the quantity of Ethylene glycol is greater than 5000 pounds per container, the following DOT shipping description applies: RQ Environmentally hazardous substances, liquid, n.o.s. (Contains: Ethylene glycol), 9, UN3082, III.				
TDG	None	Not regulated.	Not regulated	-None-	
<b>TDG Additional information</b>	None.				

**ES COMPLEAT COOLANT / EG CONCENTRATE (ETHYLENE GLYCOL BASED ANTIFREEZE)**

MSDS No.:LT16588a

MSDS Preparation Date: April 21, 2006

Page 6 of 8

ICAO/IATA	None	Not regulated.	Not regulated	-None-	
<b>ICAO/IATA Additional information</b>	None.				
IMDG	None	Not regulated.	Not regulated	-None-	
<b>IMDG Additional information</b>	None.				

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302):Ethylene glycol (5000 lbs.).

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372:This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Ethylene glycol.

**US State Right to Know Laws:**

New Jersey Labeling Requirements: This product contains the following substances required to be disclosed on product labeling: Ethylene glycol (CAS # 107-21-1, 90 - 100%); Diethylene glycol (111-46-6, 1 - 10%); water (CAS # 7732-18-5, <5%). Ethylene glycol is considered a hazardous substance in the State of New Jersey.

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

**International Information:**

Canadian WHMIS Classification:Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material) .

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

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

**SECTION 16 - OTHER INFORMATION**

**HMIS Rating** : \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

*Health: \* 2                      Flammability: 1                      Reactivity: 0*

**ES COMPLEAT COOLANT / EG CONCENTRATE (ETHYLENE GLYCOL BASED ANTIFREEZE)**



MSDS No.:LT16588a

MSDS Preparation Date: April 21, 2006

Page 7 of 8

- Legend**
- : ACGIH: American Conference of Governmental Industrial Hygienists
  - AIHA: American Industrial Hygiene Association
  - CAS: Chemical Abstract Services
  - CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
  - CFR: Code of Federal Regulations
  - COC: Cleveland Open Cup
  - DOT: Department of Transportation
  - EPA: Environmental Protection Agency
  - NFPA: National Fire Protection Association
  - HMIS: Hazardous Materials Identification System
  - HSDB: Hazardous Substances Data Bank
  - IARC: International Agency for Research on Cancer
  - IATA: International Air Transport Association
  - ICAO: International Civil Aviation Organisation
  - IMDG: International Maritime Dangerous Goods
  - N/Ap: not applicable
  - N/Av: not available
  - NIOSH: National Institute of Occupational Safety and Health
  - NTP: National Toxicology Program
  - OSHA: Occupational Safety and Health Administration
  - PEL: Permissible Exposure Limit
  - RCRA: Resource Conservation and Recovery Act
  - RTECS: Registry of Toxic Effects of Chemical Substances
  - SARA: Superfund Amendments & Reauthorization Act
  - STEL: Short Term Exposure Limit
  - TLV: Threshold Limit Values
  - TWA: Time Weighted Average
  - WEEL: Workplace Environmental Exposure Level
  - WHMIS: Workplace Hazardous Materials Identification System

- References**
- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2005.
  - 2. International Agency for Research on Cancer Monographs, searched 2006.
  - 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2006 (Chempendium, HSDB and RTECs).
  - 4. Material Safety Data Sheet from manufacturer.
  - 5. California Proposition 65 List - February 3, 2006 version.

<p><b>Prepared for:</b>          Cummins Filtration          1200 Fleetguard Road          Cookeville, Tennessee, U.S.A., 38506</p> <p><a href="http://www.fleetguard.com">http://www.fleetguard.com</a></p>	
<p><b>Prepared by:</b>          ICC The Compliance Center Inc.          Canada: 1-888-977-4834          USA: 1-888-442-9628</p> <p><a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	



**Cummins Filtration**  
1200 Fleetguard Road  
Cookeville, Tennessee, U.S.A., 38506  
Phone (931) 526-9551

**ES COMPLEAT COOLANT / EG CONCENTRATE (ETHYLENE GLYCOL BASED ANTIFREEZE)**

MSDS No.:LT16588a

**MSDS Preparation Date:** April 21, 2006

Page 8 of 8

### **DISCLAIMER OF LIABILITY**

The information in this MSDS was obtained from sources, which we believe are reliable. However, since the conditions of handling and use are beyond our control, we assume no liability for damages incurred by use of this material. This MSDS was prepared, and is to be used, for this product only. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist. If the product is used as a component in another product, this information may not be applicable. Users of this product should satisfy themselves that the conditions and methods of use assure the product is used safely. No representations or warranties, either expressed or implied, of any nature are made hereunder with respect to the information contained herein. It is the responsibility of the user to comply with any and all federal, state, or local laws and regulations that may exist. Nothing contained herein is to be construed as a recommendation for use in violation of any applicable laws or regulations.

**Preparation Date:** : April 21, 2006

**END OF DOCUMENT**