



FLEETCOOL EX-PG 41/59 PREMIX (Propylene glycol based coolant)

MSDS No.:LT16581B

MSDS Revision Date (dd/mm/yyyy): 06/05/2010

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MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier : **FLEETCOOL EX-PG 41/59 PREMIX (Propylene glycol based coolant)**

Product Code(s) : CC8934E (1 Gallon / 3.785 L Jug); CC8935E (5 Gallon / 18.93 L Pail); CC8936E (55 Gallon / 208 L Drum).

Product Use : 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 # : (931) 526-9551 (Hours of operation: 24 Hours per day, 7 days per week)

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS classification: This product is not a WHMIS controlled product in Canada. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).
OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification: Acute Health Hazard; Chronic Health Hazard.

Emergency Overview : Pink liquid. Little or no odour. Caution! Ingestion of large amounts may be harmful. Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system. Prolonged or repeated skin contact may cause drying and irritation. May cause minor eye irritation.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : None expected, when used as intended. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.

Skin : Direct skin contact may result in little or no irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.

Eyes : May cause mild eye irritation. Symptoms may include stinging and tearing.

Ingestion : May cause irritation of mouth, throat, and stomach. Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system.

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS # | Wt.% |
|--------------------|--------------|---------------|
| Propylene glycol | 57-55-6 | 30.00 - 60.00 |
| Sodium nitrite | 7632-00-0 | 0.10 - 0.30 |

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist.
- Skin contact** : Remove contaminated clothing. Wash off immediately with plenty of water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact** : Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Do NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
- Notes For Physician** : This product is a CNS depressant. Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

- Fire hazards/conditions of flammability** : Not flammable under normal conditions of handling. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
- Flammability classification (OSHA 29 CFR 1910.1200)** : Combustible Liquid Class III B.
- Oxidizing properties** : None known.
- Explosion data: Sensitivity to mechanical impact / static discharge** : Not expected to be sensitive to mechanical impact or static discharge.
- Suitable extinguishing media** : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
- Special fire-fighting procedures/equipment** : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.
- Hazardous combustion products** : Carbon oxides; nitrogen oxides (NOx); Phosphorus compounds; Sulphur oxides; other unidentified organic compounds.
- NFPA Rating** : 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
: *Health:* 1 *Flammability:* 1 *Instability:* 0 *Special Hazards:* None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- Spill response/cleanup** : Remove all sources of ignition. Ventilate area of release. Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.
- Prohibited materials** : Use non-flammable absorbent only.
- Special spill response procedures** : In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): Sodium nitrite (100 lbs / 45.4 kg).

SECTION 7 - HANDLING AND STORAGE

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- Safe Handling procedures** : Wear suitable protective equipment during handling. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Use with adequate ventilation. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Keep out of the reach of children.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.
- Incompatible materials** : Strong oxidizers (e.g. Chlorine, Peroxides, etc.), acids (e.g. sulfuric acid, nitric acid), caustics.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

| <u>Exposure Limits</u> | | | | |
|------------------------|-------------------------------------|-------------|-----------------|-------------|
| <u>Ingredients</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
| | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| Propylene glycol | 10 mg/m ³ (AIHA WEEL) | N/Av | N/Av | N/Av |
| Sodium nitrite | N/Av | N/Av | N/Av | N/Av |

- Ventilation and engineering measures** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Local exhaust ventilation is preferred to prevent contaminant dispersion into work area.
- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. 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.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Wear long sleeved shirt and pants to minimize exposed skin.
- General hygiene considerations** : Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|--|
| Physical state : Liquid. | Appearance : Pink liquid. |
| Odour : Little or no odour. | Odour threshold : N/Av |
| pH : 10.0 - 10.5 (50%) | |
| Boiling point : 195°C (383°F) | Specific gravity : 1.025 - 1.055 |
| Melting/Freezing point : - 21 to - 27°C (-5.8 to - 16.6°F) | Coefficient of water/oil distribution : N/Av |
| Vapour pressure (mmHg @ 20° C / 68° F) : N/Av | Solubility in water : Complete |
| Vapour density (Air = 1) : N/Av | Evaporation rate (n-Butyl acetate = 1) : N/Av |

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|---|--------------------------------|---|
| Volatile organic Compounds (VOC's) | Volatiles (% by weight) | : N/Av |
| : N/Av | | |
| Flash point | : > 99°C (210°F) | |
| Flash point Method | : COC | |
| Lower flammable limit (% by vol.) | | Auto-ignition temperature : N/Av |
| : N/Av | | Upper flammable limit (% by vol.) : N/Av |
| Flame Projection Length | : N/Av | Flashback observed : N/Av |

Section 10: Stability And Reactivity

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Avoid excessive heat, sparks 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

- Target organs** : Eyes, skin, respiratory system, digestive system, central nervous system.
- Routes of exposure** : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES
- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

| Ingredients | LC₅₀(4hr) | LD₅₀ | |
|--------------------|-----------------------------|------------------------|-------------------------|
| | inh, rat | (Oral, rat) | (Rabbit, dermal) |
| Propylene glycol | N/Av | 21,800 mg/kg | 20,800 mg/kg |
| Sodium nitrite | 5500 mg/m ³ | 85 mg/kg | N/Av |

- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects** : None known.
- Teratogenicity** : None known.
- Mutagenicity** : None known.
- Epidemiology** : Not available.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : Not available.
- Irritancy** : Causes little or no irritation.
- other important hazards** : CNS depression may result from extreme exposures.
- Conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. 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. The product contains the following substances which are hazardous for the environment: Sodium nitrite.
 The acute toxicity of Sodium nitrite is (IUCLID):
 Toxicity to fish - LC50/96h/rainbow trout = 0.56 - 1.78 mg/L
 Toxicity to daphnia - EC50/48h/daphnia = 12.5 - 100 mg/L
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself. Contains sodium nitrite. The log Kow value for Sodium nitrite is < 4. Sodium nitrite is not expected to bioaccumulate.

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Other Adverse Environmental effects

: 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: TRANSPORT INFORMATION

| Regulatory Information | UN Number | Shipping Name | Class | Packing Group | Label |
|---|--|----------------|---------------|---------------|---|
| 49CFR/DOT | None | Not regulated. | Not regulated | none |  |
| 49CFR/DOT Additional information | If the quantity of Sodium nitrite is greater than 100 lbs. (45.4 kg) per package, the following DOT shipping description applies: RQ Environmentally hazardous substances, liquid, n.o.s. (Contains: Sodium nitrite), 9, UN3082, III. | | | | |
| TDG | None | Not regulated. | Not regulated | -None- |  |
| TDG Additional information | None. | | | | |
| ICAO/IATA | None | Not regulated. | Not regulated | -None- |  |
| ICAO/IATA Additional information | None. | | | | |
| IMDG | None | Not regulated. | Not regulated | none |  |
| IMDG Additional information | This product was classified using the hazard criteria found in Part 2 of the IMDG Code, 2008 Edition, and was found to be not regulated. | | | | |

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): sodium nitrite (100 lbs / 45.4 kg).



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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 material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

New Jersey Labeling Requirements: This product contains the following substances required to be disclosed on product labeling: Water (CAS # 7732-18-5); Propylene glycol (CAS # 57-55-6); Dipotassium sebacate (CAS # 52457-55-3); Sodium mercaptobenzothiazole (CAS # 2492-26-4); Sodium molybdate (CAS # 7631-95-0); Sodium nitrate (CAS # 7631-99-4).

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:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

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: *1 *Flammability:* 1 *Reactivity:* 0

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
 CNS: Central Nervous System
 COC: Cleveland Open Cup
 CSA: Canadian Standards Association
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 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
 Inh: Inhalation
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available
 NFPA: National Fire Protection Association
 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 and 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 2009.
- 2. International Agency for Research on Cancer Monographs, searched 2010.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2010 (Chempendium and RTECs).
- 4. Previous version of the LT16581B MSDS, dated July 26, 2006.
- 5. US EPA Title III List of Lists - October 2006 version.
- 6. California Proposition 65 List - April 2, 2010 version.

| | |
|---|---|
| <p>Prepared for: Cummins Filtration Cookeville, Tennessee, U.S.A., 38506 Telephone: (931) 526-9551 http://www.cumminsfiltration.com/html/en/index.html Please direct all enquiries to Cummins Filtration.</p> |  |
| <p>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p> |  |

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.

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: 06/05/2010

Revision No.

: 2

Revision Information

- : Sections 2 and 3, switched.
- (M)SDS sections updated:
 - 2. HAZARDS IDENTIFICATION;
 - 3. COMPOSITION/INFORMATION ON INGREDIENTS;
 - 5. FIRE-FIGHTING MEASURES;
 - 6. Accidental release measures ;
 - 8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
 - 9. PHYSICAL AND CHEMICAL PROPERTIES;
 - 12. ECOLOGICAL INFORMATION ;
 - 11. TOXICOLOGICAL INFORMATION;
 - 15. REGULATORY INFORMATION.

END OF DOCUMENT