

Fleetcool EG Concentrate

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015.

Date of issue: 06/06/2016

Revision date: 05/05/2017

Version: 2.0

SECTION 1: Identification

1.1. Product identifier

Product name : Fleetcool EG Concentrate
Product code : CC2873, CC8965, CC8966, CC8967, CC8968

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Concentrate Antiboil/Antifreeze Coolant

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Cummins Filtration
1200 Fleetguard Road
Cookeville, TN 38506 - USA
T 931-526-9551

Distributor:

Cummins Western Canada
Canadian Distributor
11751 181 St.
Edmonton, AB T5S 2K5, Canada
1-780-455-2151

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (Within Continental U.S.) Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 4 (Oral)
Repr. 1
STOT SE 3

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



GHS07

GHS08

Signal word (GHS) :

Danger

Hazard statements (GHS) :

Harmful if swallowed. May damage fertility or the unborn child. May cause respiratory irritation.

Precautionary statements (GHS) :

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands 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. If exposed or concerned: Get medical advice/attention. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

No additional information available.

2.4. Unknown acute toxicity (GHS)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

| Name | Product identifier | % |
|----------------------|--------------------|---------------|
| Ethylene glycol | (CAS No) 107-21-1 | 93.61 - 98.43 |
| Sodium nitrite | (CAS No) 7632-00-0 | 0.32 - 0.39 |
| Disodium tetraborate | (CAS No) 1330-43-4 | 0.13 - 0.15 |
| Ethylene oxide | (CAS No) 75-21-8 | < 0.1 |

*The concentrations listed represent actual ranges that result from batch variability.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/injuries after ingestion : Harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to cool exposed surfaces.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Ethylene oxide is subject to the standard 29 CFR 1910.1047 which may contain specific requirements for handling including protective equipment, regulated areas, monitoring and medical surveillance. The employer should review the standard and assure compliance with applicable requirements.
- Hygiene measures : Wash hands before eating, drinking, or smoking. Launder contaminated clothing before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep only in original container. Keep container tightly closed. Keep in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Ethylene glycol (107-21-1) | | |
|----------------------------|------------------------------------|--------------------------------------|
| ACGIH | ACGIH Ceiling (mg/m ³) | 100 mg/m ³ (aerosol only) |
| OSHA | Not applicable | |

| Sodium nitrite (7632-00-0) | | |
|----------------------------|----------------|--|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |

| Disodium tetraborate (1330-43-4) | | |
|----------------------------------|--------------------------------------|------------------------------------------|
| ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| ACGIH | ACGIH STEL (mg/m ³) | 6 mg/m ³ (inhalable fraction) |
| OSHA | Not applicable | |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 1 mg/m ³ |

| Ethylene oxide (75-21-8) | | |
|--------------------------|------------------------------------------|-------------------------------------------------|
| ACGIH | ACGIH TWA (ppm) | 1 ppm |
| OSHA | OSHA PEL (TWA) (ppm) | 1 ppm |
| OSHA | OSHA PEL (STEL) (ppm) | 5 ppm (29 CFR 1910.1047) |
| IDLH | US IDLH (ppm) | 800 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.18 mg/m ³ (less than stated value) |
| NIOSH | NIOSH REL (TWA) (ppm) | 0.1 ppm (less than stated value) |
| NIOSH | NIOSH REL (ceiling) (mg/m ³) | 9 mg/m ³ |
| NIOSH | NIOSH REL (ceiling) (ppm) | 5 ppm |

8.2. Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc.) below recommended exposure limits.

Hand protection : Wear suitable gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : No data available.

Colour : Green

Odour : Odourless

Odour threshold : No data available

pH : 10.5

Melting point : No data available

Freezing point : No data available

Boiling point : > 162.8 °C (> 325 °F)

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| | |
|--------------------------------------------|---------------------|
| Flash point | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : Not flammable |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Vapour pressure | : No data available |
| Relative density | : 1.12 |
| Relative vapour density at 20 °C | : No data available |
| Solubility | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

| Fleetcool EG Concentrate | |
|----------------------------------|----------------------------------------------------|
| LD50 oral rat | >300 but ≤2000 mg/kg (Calculated using ATE values) |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat | No data available |
| Ethylene glycol (107-21-1) | |
| LD50 oral rat | 4700 mg/kg |
| LD50 dermal rat | 10600 mg/kg |
| Sodium nitrite (7632-00-0) | |
| LD50 oral rat | 85 mg/kg |
| LC50 inhalation rat | 5.5 mg/l/4h |
| Disodium tetraborate (1330-43-4) | |
| LD50 oral rat | 2660 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| Ethylene oxide (75-21-8) | |
| LD50 oral rat | 72 mg/kg |
| LC50 inhalation rat | 800 ppm/4h |

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| | |
|-----------------------------------|---------------------------------------------------------------------|
| Skin corrosion/irritation | : Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | : Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | : Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |

| Ethylene oxide (75-21-8) | |
|------------------------------------------------|-----------------------------|
| IARC group | 1 - Carcinogenic to humans |
| National Toxicology Program (NTP) Status | 2 - Known Human Carcinogens |
| In OSHA Specifically Regulated Carcinogen list | Yes |

| | |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Reproductive toxicity | : May damage fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : Based on available data, the classification criteria are not met. |
| Aspiration hazard | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. |
| Symptoms/injuries after eye contact | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Symptoms/injuries after ingestion | : Harmful if swallowed. May cause stomach distress, nausea or vomiting. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|-------------------------------------------------------------------|
| Ecology - general | : May cause long-term adverse effects in the aquatic environment. |
|-------------------|-------------------------------------------------------------------|

12.2. Persistence and degradability

| Fleetcool EG Concentrate | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| Fleetcool EG Concentrate | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

| | |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
|------------------------------|---------------------------------------|

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste disposal recommendations | : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. |
| Ecology - waste materials | : Avoid release to the environment. |

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated for transport

Additional information

| | |
|-------------------------------|-----------------------------------------------------------------------------|
| Other information | : No supplementary information available. |
| Special transport precautions | : Do not handle until all safety precautions have been read and understood. |

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA).

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All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

| Ethylene glycol (107-21-1) | |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subject to reporting requirements of United States SARA Section 313 | |
| EPA TSCA Regulatory Flag | Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule |
| SARA Section 313 - Emission Reporting | 1.0 % |

| Sodium nitrite (7632-00-0) | |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Subject to reporting requirements of United States SARA Section 313 | |
| EPA TSCA Regulatory Flag | S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule |
| SARA Section 313 - Emission Reporting | 1.0 % |

| Ethylene oxide (75-21-8) | |
|---------------------------------------------------------------------|---------|
| Listed on the United States SARA Section 302 | |
| Subject to reporting requirements of United States SARA Section 313 | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb |
| SARA Section 313 - Emission Reporting | 0.1 % |

15.2. US State regulations

| Fleetcool EG Concentrate | |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| State or local regulations | This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm |

SECTION 16: Other information

| | |
|-------------------|---------------------------|
| Date of issue | : 06/06/2016 |
| Revision date | : 05/05/2017 |
| Other information | : None. |
| Prepared by | : Nexreg Compliance, Inc. |
| Prepared for | : Cummins Filtration |

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