## Fleet Charge Concentrate Antifreeze \& Coolant

Safety Data Sheet
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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Product form
: Mixture
Product name
: Fleet Charge Concentrate Antifreeze \& Coolant
1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Heavy Duty Engine Coolant
1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC
4065 Commercial Ave.
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com
1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 5273887 (International)
Chemtrec

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Acute Tox. 4 (Oral) H302
STOT RE 2 H373
Full text of H statements : see section 16

### 2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US)

Signal word (GHS-US)
Hazard statements (GHS-US)
Precautionary statements (GHS-US)


Warning
H302 - Harmful if swallowed
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)
: P201-Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe mist, spray, vapors
P264 - Wash affected areas thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear personal protective equipment as required
P301+P310-If swallowed: Immediately call doctor/physician or poison center
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention
P405-Store locked up
P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

### 2.3. Other hazards

No additional information available
2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

| Name | Product identifier | \% by wt | GHS-US classification |
| :--- | :--- | :--- | :--- |
| ethylene glycol | (CAS No) 107-21-1 | $90-97$ | Acute Tox. 4 (Oral), H302 |
| diethylene glycol | (CAS No) 111-46-6 | Acute Tox. 4 (Oral), H302 <br> STOT RE 2, H373 |  |
| water |  | (CAS No) $7732-18-5$ | Not classified |
| denatonium benzoate | (CAS No) 3734-33-6 | Acute Tox. 4 (Oral), H302 <br> Skin Irrit. 2, H315 <br> Eye Irrit. 2A, H319 <br> STOT SE 3, H335 |  |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general
First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion
: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
: Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention.
: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Get medical advice/attention.
: Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

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

Symptoms/injuries
Symptoms/injuries after skin contact
Symptoms/injuries after eye contact
Symptoms/injuries after ingestion
: Causes damage to organs (kidneys) Oral.
: Causes skin irritation.
: Causes serious eye damage.
: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be $100 \mathrm{~mL}(3 \mathrm{oz})$.

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

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occured.

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
: Water fog. Fine water spray. Alcohol-resistant foam. Foam. Carbon dioxide. Dry chemical powder. Sand.
Unsuitable extinguishing media
: Do not use a heavy water stream. May spread fire.
5.2. Special hazards arising from the substance or mixture

Fire hazard
: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
Reactivity : No dangerous reactions known under normal conditions of use.

### 5.3. Advice for firefighters

Firefighting instructions
Protection during firefighting
Special protective equipment for fire fighters
: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
: Do not enter fire area without proper protective equipment, including respiratory protection.
: Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

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Personal protective equipment
: Avoid all unnecessary exposure. Gloves. Safety glasses.


| Hand protection | : Wear protective gloves. |
| :--- | :--- |
| Eye protection | : Chemical goggles or safety glasses. |
| Respiratory protection | : If exposed to levels above exposure limits wear appropriate respiratory protection. |
| 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

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10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.
10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fume. Aldehydes. alcohols. Ethers.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
: Oral: Harmful if swallowed.

| denatonium benzoate (3734-33-6) |  |
| :--- | :--- |
| LD50 oral rat | $584.00 \mathrm{mg} / \mathrm{kg}$ (Rat; Literature study) |
| LD50 dermal rabbit | $>2,000.00 \mathrm{mg} / \mathrm{kg}$ (Rabbit; Literature study) |
| ATE US (oral) | $584.00 \mathrm{mg} / \mathrm{kg}$ bodyweight |
| diethylene glycol (111-46-6) |  |
| LD50 dermal rabbit | $11,890.00 \mathrm{mg} / \mathrm{kg}$ (Rabbit) |
| ATE US (oral) | $500.00 \mathrm{mg} / \mathrm{kg}$ bodyweight |
| ATE US (dermal) | $11,890.00 \mathrm{mg} / \mathrm{kg}$ bodyweight |

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| ethylene glycol (107-21-1) |  |
| :---: | :---: |
| LD50 oral rat | > 5,000.00 mg/kg (Rat; Literature study) |
| ATE US (oral) | $500.00 \mathrm{mg} / \mathrm{kg}$ bodyweight |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |
| Specific target organ toxicity (single exposure) | Not classified |
| Specific target organ toxicity (repeated exposure) | May cause damage to organs (kidneys) through prolonged or repeated exposure (oral). May cause damage to organs through prolonged or repeated exposure |
| Aspiration hazard | Not classified |
| Potential adverse human health effects and symptoms | Based on available data, the classification criteria are not met. Harmful if swallowed. |
| Symptoms/injuries after skin contact | Causes skin irritation. |
| Symptoms/injuries after eye contact | Causes serious eye damage. |
| Symptoms/injuries after ingestion | Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be $100 \mathrm{~mL}(3 \mathrm{oz})$. |

## SECTION 12: Ecological information

12.1. Toxicity

| denatonium benzoate (3734-33-6) |  |
| :---: | :---: |
| LC50 fish 1 | > 1,000.00 mg/l (LC50; 96 h ; Salmo gairdneri) |
| EC50 Daphnia 1 | $13.00 \mathrm{mg} / \mathrm{l}$ (EC50; 48 h ; Daphnia magna) |
| diethylene glycol (111-46-6) |  |
| LC50 fish 1 | > 5,000.00 ppm (LC50; 24 h ) |
| EC50 Daphnia 1 | > 10,000.00 mg/l (EC50; 24 h ) |
| ethylene glycol (107-21-1) |  |
| EC50 Daphnia 1 | > 10,000.00 mg/l (EC50; 24 h ) |
| LC50 fish 2 | 40,761.00 mg/l (LC50; 96 h; Salmo gairdneri) |

12.2. Persistence and degradability

| denatonium benzoate (3734-33-6) |  |
| :--- | :--- |
| Persistence and degradability | Biodegradability in water: no data available. No (test) data on mobility of the substance <br> available. |
| diethylene glycol (111-46-6) |  |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in <br> the air. |
| Biochemical oxygen demand (BOD) | $0.02 \mathrm{~g} \mathrm{O}_{2} / \mathrm{g}$ substance |
| Chemical oxygen demand (COD) | $1.51 \mathrm{~g} \mathrm{O}_{2} / \mathrm{g}$ substance |
| ThOD | $1.51 \mathrm{~g} \mathrm{O}_{2} / \mathrm{g}$ substance |
| BOD (\% of ThOD) | 0.02 |
| ethylene glycol (107-21-1) |  |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. |
| Biochemical oxygen demand (BOD) | $0.47 \mathrm{~g} \mathrm{O}_{2} / \mathrm{g}$ substance |
| Chemical oxygen demand (COD) | $1.24 \mathrm{~g} \mathrm{O}_{2} / \mathrm{g}$ substance |

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| ethylene glycol (107-21-1) |  |
| :--- | :--- |
| ThOD | $1.29 \mathrm{~g} \mathrm{O}_{2} / \mathrm{g}$ substance |
| BOD (\% of ThOD) | 0.36 |

### 12.3. Bioaccumulative potential

| denatonium benzoate (3734-33-6) |  |
| :--- | :--- |
| BCF fish 1 | $1.4-3.6$ (BCF; BCFBAF v3.00) |
| Log Pow | 1.78 (Estimated value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| diethylene glycol (111-46-6) |  |
| BCF fish 1 | 100.00 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental <br> value) |
| Log Pow | -1.98 (Calculated; Other) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF <500). |
| ethylene glycol (107-21-1) |  |
| BCF fish 1 | 10.00 (BCF; 72 h) |
| BCF other aquatic organisms 1 | $0.21-0.6$ (BCF) |
| BCF other aquatic organisms 2 | 190.00 (BCF; 24 h) |
| Log Pow | -1.34 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF <500). |

### 12.4. Mobility in soil



### 12.5. Other adverse effects

| Effect on ozone layer | : No known effect on the ozone layer |
| :--- | :--- |
| Effect on global warming | : No known ecological damage caused by this product. |
| Other information | : Avoid release to the environment. |

## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
UN-No.(DOT)
: UN3082
Proper Shipping Name (DOT)
Environmentally hazardous substances, liquid, n.o.s.
Class (DOT)
9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)

9 - Class 9 (Miscellaneous dangerous materials)

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| Packing group (DOT) | : III - Minor Danger |
| :---: | :---: |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | 241 |
| DOT Symbols | : G-Identifies PSN requiring a technical name |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 155 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : No limit |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : No limit |
| DOT Vessel Stowage Location | A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel |
| Other information | : Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package). |

TDG
Refer to current TDG Canada for further Canadian regulations

Transport by sea
Proper Shipping Name (IMDG) : Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)

## Air transport

Proper Shipping Name (IATA) : Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)

## SECTION 15: Regulatory information

15.1. US Federal regulations

| Fleet Charge Concentrate Antifreeze \& Coolant | Toxic Substances Control Act (TSCA): The intentional ingredients of this <br> product are listed |
| :--- | :--- |
| EPA TSCA Regulatory Flag |  |
| denatonium benzoate (3734-33-6) |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| diethylene glycol (111-46-6) | Listed on the United States TSCA (Toxic Substances Control Act) inventory  <br> ethylene glycol (107-21-1) T- T - indicates a substance that is the subject of a Section 4 test rule under TSCA <br> Listed on the United States TSCA (Toxic Substances Control Act) inventory <br> Subject to reporting requirements of United States SARA Section 313  <br> EPA TSCA Regulatory Flag 5000 Ib(s) <br> CERCLA RQ Immediate (acute) health hazard <br> Delayed (chronic) health hazard <br> Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting <br> SARA Section 311/312 Hazard Classes Ethylene glycol is subject to Form R Reporting requirements. |

### 15.2. International regulations

## CANADA

WHMIS Classification


Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

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EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Not classified

National regulations
Fleet Charge Concentrate Antifreeze \& Coolant
DSL (Canada): The intentional ingredients of this product are listed
ECL (South Korea): The intentional ingredients of this product are listed
EINECS (Europe): The intentional ingredients of this product are listed
ENCS (Japan): The intentional ingredients of this product are listed

### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, substance(s) known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity

| ethylene glycol (107-21-1) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| U.S. - California Proposition 65 Carcinogens List | U.S. - California - <br> Proposition 65 - <br> Developmental Toxicity | U.S. - California Proposition 65 Reproductive Toxicity Female | U.S. - California Proposition 65 Reproductive Toxicity Male | Non-significant risk level (NSRL) |
| No | Yes | No | No |  |
| diethylene glycol (111-46-6) |  |  |  |  |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |  |  |  |  |
| ethylene glycol (107-21-1) |  |  |  |  |
| U.S. - Massachusetts - Right To Know List <br> U.S. - New Jersey - Right to Know Hazardous Substance List <br> U.S. - Pennsylvania - RTK (Right to Know) List |  |  |  |  |

## SECTION 16: Other information

Full text of H-statements:

| H302 | Harmful if swallowed |
| :--- | :--- |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H373 | May cause damage to organs through prolonged or repeated <br> exposure |

NFPA health hazard
NFPA fire hazard
NFPA reactivity
: 1-Exposure could cause irritation but only minor residual injury even if no treatment is given.
: 1 - Must be preheated before ignition can occur.
: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.


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| HMIS III Rating | $: 2$ Moderate Hazard - Temporary or minor injury may occur |
| :--- | :--- |
| Health | $: 1$ Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, |
| Flammability | solids and semi solids having a flash point above $200{ }^{\circ} \mathrm{F}$ ( $93{ }^{\circ} \mathrm{C}$ ). (Class IIIB) |
|  | O Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT <br> react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |
| Physical | B Safety glasses, Gloves |

## SDS GHS US (GHS HazCom 2012) OWI

[^0]
[^0]:    
    
     referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

