# Parts Master Extended Life Concentrate Antifreeze and Coolant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 03/30/2016

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

- **Product form**: Mixture
- **Product name**: Parts Master Extended Life Concentrate Antifreeze and Coolant

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

- **Use of the substance/mixture**: Antifreeze & 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) 527 3887 (International) Chemtrec

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

- **GHS-US classification**
  - Acute toxicity (oral), Category 4: H302
  - Reproductive toxicity, Category 2: H361
  - Specific target organ toxicity — Repeated exposure, Category 2: H373
  - Full text of H statements: see section 16

### 2.2. Label elements

- **GHS-US labelling**
  - Hazard pictograms (GHS-US): ![GHS07](image) ![GHS08](image)

- **Signal word (GHS-US)**: Warning

- **Hazard statements (GHS-US)**:
  - H302 - Harmful if swallowed
  - H361 - Suspected of damaging fertility or the unborn child
  - H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)

- **Precautionary statements (GHS-US)**:
  - 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 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
Parts Master Extended Life Concentrate Antifreeze and Coolant

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SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% by wt</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene glycol</td>
<td>(CAS No) 107-21-1</td>
<td>90 - 97</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>diethylene glycol</td>
<td>(CAS No) 111-46-6</td>
<td>&lt; 5</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>water</td>
<td>(CAS No) 7732-18-5</td>
<td>&lt; 4</td>
<td>Not classified</td>
</tr>
<tr>
<td>potassium 2-ethylhexanoate</td>
<td>(CAS No) 3164-85-0</td>
<td>&lt; 3</td>
<td>Repr. 2, H361</td>
</tr>
<tr>
<td>denatonium benzoate</td>
<td>(CAS No) 3734-33-6</td>
<td>30 - 50 ppm</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice.

First-aid measures after skin contact : 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.

First-aid measures after eye contact : 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: Get medical advice and attention.

First-aid measures after ingestion : 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/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 : Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn child.

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 mL (3 oz).

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

A more effective intravenous antidote for physician uses is 4-methylpyrazole, 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


 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 : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Special protective equipment for fire fighters: Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection. Refer to section 8.2.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Store away from other materials.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -18 °C (0 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty.

Incompatible products: Keep away from strong acids, strong bases and oxidizing agents.

Incompatible materials: Sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>ethylene glycol (107-21-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

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

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: Respiratory protection not required in normal conditions. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Slightly yellow to green Green</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH 50% water solution</td>
<td>8</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>Nil</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-18 °C (0 °F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>158 °C (317 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>116 °C (241 °F) [100% Ethylene Glycol ASTM D56</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>400 °C (752 °F) [100% Ethylene Glycol Literature</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 0.1 @ 20 °C</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.12</td>
</tr>
<tr>
<td>Density</td>
<td>1.12 kg/l (9.34 lbs/gal)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Complete</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>3.2 - 15.3 vol %</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

VOC content: 0 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Keep away from any flames or sparking source.

#### 10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

#### 10.6. Hazardous decomposition products


### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity: Oral: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>denatonium benzoate (3734-33-6)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>584.00 mg/kg (Rat; Literature study)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2,000.00 mg/kg (Rabbit; Literature study)</td>
</tr>
</tbody>
</table>
denatonium benzoate (3734-33-6)
ATE US (oral) 584.00 mg/kg bodyweight

ethylene glycol (107-21-1)
LD50 oral rat > 5,000.00 mg/kg (Rat; Literature study)
ATE US (oral) 500.00 mg/kg bodyweight

diethylene glycol (111-46-6)
LD50 dermal rabbit 11,890.00 mg/kg (Rabbit)
ATE US (oral) 500.00 mg/kg bodyweight
ATE US (dermal) 11,890.00 mg/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: Suspected of damaging fertility or the unborn child.
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).
Aspiration hazard: Not classified

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

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 mL (3 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 mg/l (EC50; 48 h; Daphnia magna)
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)
diethylene glycol (111-46-6)
LC50 fish 1 > 5,000.00 mg/l (LC50; 24 h)
EC50 Daphnia 1 > 10,000.00 mg/l (EC50; 24 h)

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 available.

ethylene glycol (107-21-1)
Persistence and degradability Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD) 0.47 g O2/g substance
Chemical oxygen demand (COD) 1.24 g O2/g substance
ThOD 1.29 g O2/g substance
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).

**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).

**diethylene glycol (111-46-6)**

- BCF fish 1: 100.00 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental value)
- Log Pow: -1.98 (Calculated; Other)
- Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

**ethylene glycol (107-21-1)**

- Surface tension: 0.05 N/m (20 ºC / 68 ºF)

**diethylene glycol (111-46-6)**

- Surface tension: 0.05 N/m
- Log Koc: Koc, SRC PCKOCWIN v1.66; 1; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0; Calculated value

12.5. Other adverse effects

- Effect on ozone layer: No known effect on the ozone layer
- Effect on global warming: No known effects from this product.
- Other information: Avoid release to the environment.

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

- Ecology - waste materials: Dispose of contents/container 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
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Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.
Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)

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 173.75) : 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

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Denatonium benzoate (3734-33-6)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Ethylene glycol (107-21-1)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td></td>
<td>EPA TSCA Regulatory Flag: T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA</td>
</tr>
<tr>
<td></td>
<td>CERCLA RO: 5000 lb(s)</td>
</tr>
<tr>
<td></td>
<td>SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting</td>
</tr>
<tr>
<td></td>
<td>SARA Section 313 - Emission Reporting: Ethylene glycol is subject to Form R Reporting requirements.</td>
</tr>
<tr>
<td><strong>Diethylene glycol (111-46-6)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Potassium 2-ethylhexanoate (3164-85-0)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

15.2. International regulations
CANADA

Parts Master Extended Life Concentrate Antifreeze and Coolant

WHMIS Classification

This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.

EU-Regulations

No additional information available

National regulations

Parts Master Extended Life Concentrate Antifreeze and 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 - Proposition 65 - 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

ethylene glycol (107-21-1)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Revision date: 03/30/2016

Full text of H-statements:

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

NFPA health hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard: 1 - Must be preheated before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
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HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 ºF (93 ºC). (Class III B)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection B - Safety glasses, Gloves

SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product 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.