

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/01/2024

	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Final Charge Pro-Series Concentrate Antifreeze and Coolant
SDS ID	: 515001
.2. Relevant identified uses of the s	substance or mixture and uses advised against
lse of the substance/mixture	: Antifreeze
.3. Details of the supplier of the sat	fety data sheet
Dld World Industries, LLC 3100 Sanders Road Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com	
I.4. Emergency telephone number	
Emergency number	: 800 424 9300 (United States); 00 1 703 527 3887 (International) Chemtrec
SECTION 2: Hazards identificatio	n
2.1. Classification of the substance	or mixture
GHS-US classification	
cute toxicity (oral), H302 Category 4	Harmful if swallowed.
Specific target organ H373 bxicity — Repeated	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
exposure, Category 2 Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	: GHS07 GHS08
Signal word (GHS-US)	: Warning
lazard statements (GHS-US)	: Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Precautionary statements (GHS-US)	<ul> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Do not breathe mist, spray, vapors</li> <li>Wash affected areas thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Wear personal protective equipment as required.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>If exposed or concerned: Get medical advice/attention.</li> <li>Store locked up.</li> <li>Dispose of contents/container to appropriate waste disposal facility, in accordance with</li> </ul>

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

### No data available

### SECTION 3: Composition/information on ingredients

## 3.1. Substances

# Not applicable

3.2. Mixtures			
Name	Product identifier	% by wt	GHS-US classification
ethylene glycol (antifreezing agent)	(CAS-No.) 107-21-1	90 - 97	Acute Tox. 4 (Oral), H302
diethylene glycol (antifreezing agent)	(CAS-No.) 111-46-6	0.5 - 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
water (solvent)	(CAS-No.) 7732-18-5	1 - 5	Not classified
denatonium benzoate (embittering agent)	(CAS-No.) 3734-33-6	0.003 - 0.005 [30 - 50 ppm]	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

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	: Wash skin with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of water, Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	: Obtain emergency medical attention. Rinse mouth. Give water to drink if victim completely conscious/alert. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. 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 effect	s, both acute and delayed
Symptoms/effects	: Causes damage to organs (kidneys) Oral.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
• • •	

#### 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	: Carbon dioxide. Dry chemical. Foam. Sand. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream. May spread fire.
5.2. Special hazards arising from the su	bstance 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. Product is not flammable or combustible but may burn under fire conditions.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Special protective equipment and p	recautions for fire-fighters
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.
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SECTI	SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equi	ipment and emergency procedures		
6.1.1.	1. For non-emergency personnel			
Emerger	cy procedures	: Evacuate unnecessary personnel.		
6.1.2.	For emergency responders			
Protectiv	Protective equipment : Equip cleanup crew with proper protection. Use personal protective equipment as required.			
Emerger	cy 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 8: "Exposure controls/personal protection". For further information refer to section 13.

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 hands, forearms and face thoroughly after handling.	
7.2. Conditions for safe storage, inc	luding any incompatibilities	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct Sunlight. Keep container closed when not in use. Product may become solid at temperatures below -18 °C (0 °F). Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty. Do not store near food, foodstuffs, drugs or potable water supplies.	
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**

denatonium benzoate (3734-33-6)				
Not applicable	Not applicable			
ethylene glycol (107-21	I-1)			
ACGIH	Local name	Ethylene glycol		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>		
ACGIH	ACGIH TWA (ppm)	25 ppm (Vapor fraction)		
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Inhalable fraction, Aerosol only)		
ACGIH	ACGIH STEL (ppm)	50 ppm (Vapor fraction)		
ACGIH	Remark (ACGIH)	Upper respiratory tract & eye irritant		
ACGIH	Regulatory reference	ACGIH 2018		
diethylene glycol (111-46-6)				
Not applicable				
water (7732-18-5)				
Not applicable				

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#### 8.2. Appropriate engineering controls

#### No additional information available

#### 8.3. Individual protection measures/Personal protective equipment

### 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.

91.       Information on basic physical and chemical properties         Physical state       :       Liquid         Molecular mass       :       62.07 g/mol Ethylene Glycol         Color       :       Red         Odor       :       Mild         Odor threshold       :       No data available         pH 50% water solution       :       8.3         Relative evaporation rate (butylacetate=1)       :       Nil         Freezing point       :       -18 °C (0 °F)         Bolling point       :       158 °C (317 °F)         Flash point       :       116 °C (241 °F) [100% Ethylene Glycol] ASTM D56         Auto-ignition temperature       :       400 °C (752 °F) (100% Ethylene Glycol] <i>Literature</i> Decomposition temperature       :       No data available         Vapor pressure       :       <0.1 @Q °C         Relative vapor density at 20 °C       :       No data available         Specific Gravity       :       1.136 &         Density       :       1.136 &         Density       :       No data available         Log Kow       :       No data available         Viscosity, dynamic       :       No data available         Viscosity, dynam	SECTION 9: Physical and chemical properties		
Molecular mass         : 62.07 g/mol Ethylene Glycol           Color         : Red           Odor         : Mild           Odor threshold         : No data available           Pd 50% water solution         : 8.3           Relative evaporation rate (butylacetate=1)         : Nil           Freezing point         : 188 °C (0 °F)           Boiling point         : 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56           Auto-ignition temperature         : 400 °C (752 °F) [100% Ethylene Glycol] ASTM D56           Decomposition temperature         : No data available           Flasm boilt         : 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56           Quere of the solution temperature         : No data available           Person         : No data available           Vapor pressure         : < 0.1 @ 20 °C	9.1. Information on basic physical and o	chemical properties	
Color:RedOdor:MildOdor threshold:No data availableQdor threshold:No data availablePH 50% water solution:8.3Relative evaporation rate (butylacetate=1):NilFreezing point:-18 °C (0 °F)Boiling point:158 °C (317 °F)Flash point:116 °C (241 °F) [100% Ethylene Glycol] ASTM D56Auto-ignition temperature:400 °C (752 °F) [100% Ethylene Glycol] LiteratureDecomposition temperature:No data availablePlammability (solid, gas):No data availableVapor pressure:< 0.1 @ 20 °C	Physical state	: Liquid	
Odor: MildOdor threshold: No data availablepH 50% water solution: 8.3Relative evaporation rate (butylacetat=1): NiiFreezing point: -18 °C (0 °F)Boling point: 15 °C (317 °F)Flash point: 16 °C (241 °F) [100% Ethylene Glycol] ASTM D56Auto-ignition temperature: 400 °C (752 °F) [100% Ethylene Glycol] <i>Literature</i> Decomposition temperature: No data availableFlarmability (solid, gas): No data availableVapor pressure: < 0.1 @ 20 °C	Molecular mass	: 62.07 g/mol Ethylene Glycol	
Odor threshold: No data availablepH 50% water solution: 8.3Relative evaporation rate (butylacetate=1): NilFreezing point: 158 °C (0 °F)Boiling point: 158 °C (241 °F)Flash point: 10 °C (752 °F) [100% Ethylene Glycol] ASTM D56Auto-ignition temperature: 400 °C (752 °F) [100% Ethylene Glycol] <i>Literature</i> Decomposition temperature: No data availableVapor pressure: < 0.1 @ 20 °C	Color	: Red	
PH 50% water solution: 8.3Relative evaporation rate (butylacetate=1): NilFreezing point: -18 °C (0 °F)Boiling point: 158 °C (317 °F)Flash point: 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56Auto-ignition temperature: 400 °C (752 °F) [100% Ethylene Glycol] LiteratureDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapor pressure: < 0.1 @ 20 °C	Odor	: Mild	
Relative evaporation rate (butylacetate=1):NilFreezing point:-18 °C (0 °F)Boiling point:158 °C (317 °F)Flash point:116 °C (241 °F) [100% Ethylene Glycol] ASTM D56Auto-ignition temperature:400 °C (752 °F) [100% Ethylene Glycol] LiteratureDecomposition temperature:No data availableFlammability (solid, gas):No data availableVapor pressure:<0.1 @ 20 °C	Odor threshold	: No data available	
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Flash point: 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56Auto-ignition temperature: 400 °C (752 °F) [100% Ethylene Glycol] LiteratureDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapor pressure: < 0.1 @ 20 °C	Freezing point	: -18 °C (0 °F)	
Auto-ignition temperature: 400 °C (752 °F) [100% Ethylene Glycol] LiteratureDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapor pressure: < 0.1 @ 20 °C	Boiling point	: 158 °C (317 °F)	
Decomposition temperature:No data availableFlammability (solid, gas):No data availableVapor pressure:< 0.1 @ 20 °C	Flash point	: 116 °C (241 °F) [100% Ethylene Glycol] <i>ASTM D</i> 56	
Flammability (solid, gas): No data availableVapor pressure: < 0.1 @ 20 °C	Auto-ignition temperature	: 400 °C (752 °F) [100% Ethylene Glycol] <i>Literature</i>	
Vapor pressure: < 0.1 @ 20 °CRelative vapor density at 20 °C: No data availableSpecific Gravity: No data availableDensity: 1.136Density: Vater: CompleteLog Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Decomposition temperature	: No data available	
Relative vapor density at 20 °C: No data availableSpecific Gravity: 1.136Density: 1.136 kg/l (9.485 lbs/gal)Solubility: Water: CompleteLog Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Flammability (solid, gas)	: No data available	
Specific Gravity: 1.136Density: 1.136 kg/l (9.485 lbs/gal)Solubility: Water: CompleteLog Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Vapor pressure	: < 0.1 @ 20 ℃	
Density: 1.136 kg/l (9.485 lbs/gal)Solubility: Water: CompleteLog Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Relative vapor density at 20 °C	: No data available	
Solubility: Water: CompleteLog Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Specific Gravity	: 1.136	
Log Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Density	: 1.136 kg/l (9.485 lbs/gal)	
Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Solubility	: Water: Complete	
Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Log Pow	: No data available	
Viscosity, dynamic: No data availableExplosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Log Kow	: No data available	
Explosive limits: 3.2 - 15.3 vol %Explosive properties: Not applicable.	Viscosity, kinematic	: No data available	
Explosive properties : Not applicable.	Viscosity, dynamic	: No data available	
	Explosive limits	: 3.2 - 15.3 vol %	
Oxidizing properties : Not applicable.	Explosive properties	: Not applicable.	
	Oxidizing properties	: Not applicable.	

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9.2. Other information			
VOC content	: 0%		
SECTION 10: Stability and reactivity			
10.1. Reactivity	aditions of use		
No dangerous reactions known under normal cor			
10.2. Chemical stability			
Stable.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal cor	nditions of use.		
10.4. Conditions to avoid			
Extremely high or low temperatures. Keep away	from open flames, hot surfaces and sources of ignition.		
10.5. Incompatible materials			
Keep away from strong acids, strong bases and	oxidizing agents.		
10.6. Hazardous decomposition products			
Alcohols. Aldehydes. Carbon dioxide. Carbon mo	onoxide. Fume. Ethers.		
<b>SECTION 11: Toxicological informat</b>	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
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denatonium benzoate (3734-33-6) LD50 oral rat	584 mg/kg (Rat, Literature study, Oral)		
LD50 dermal rabbit	<ul> <li>&gt; 2000 mg/kg (Rabbit, Literature study, Dermal)</li> </ul>		
ATE US (oral)	584 mg/kg bodyweight		
ethylene glycol (107-21-1)			
LD50 oral rat	7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male / female,		
	Experimental value, Aqueous solution, Oral, 7 day(s))		
LC50 inhalation rat (mg/l)	> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))		
ATE US (oral)	500 mg/kg bodyweight		
diethylene glycol (111-46-6)	40000 mm//m hashquainht/OECD 404. Asuta Oral Taviaity, Dat Mala, Everymental value		
LD50 oral rat	19600 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)		
LD50 dermal rabbit	11890 mg/kg (Rabbit, Dermal)		
LC50 inhalation rat (mg/l)	> 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence)		
ATE US (oral)	500 mg/kg bodyweight		
ATE US (dermal)	11890 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		
Description to description			
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-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/effects	: Causes damage to organs (kidneys) Oral.		
Symptoms/effects after skin contact	: May cause moderate irritation.		

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Symptoms/effects after eye contact	:	Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	:	Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	No additional information available.
denatonium benzoate (3734-33-6)	
LC50 fish 1	> 1,000.00 mg/l (96 h, Salmo gairdneri, Literature study)
EC50 Daphnia 1	13.00 mg/l (48 h, Daphnia magna, Literature study)
ethylene glycol (107-21-1)	
LC50 fish 1	40,761.00 mg/l (96 h, Salmo gairdneri, Static system)
EC50 Daphnia 1	> 10,000.00 mg/l (24 h, Daphnia magna)
diethylene glycol (111-46-6)	
LC50 fish 1	> 5,000.00 ppm (24 h, Carassius auratus)
EC50 Daphnia 1	> 10,000.00 mg/l (24 h, Daphnia magna)
LC50 fish 2	75,200.00 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Experimental value)
EC50 Daphnia 2	> 10,000.00 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)

### 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	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.47 g $O_2/g$ substance	
Chemical oxygen demand (COD)	$1.24 \text{ g O}_2/\text{g}$ substance	
ThOD	1.29 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.36	
diethylene glycol (111-46-6)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in water.	
Biochemical oxygen demand (BOD)	0.02 g $O_2/g$ substance	
Chemical oxygen demand (COD)	$1.51 \text{ g O}_2/\text{g substance}$	
ThOD	$1.51 \text{ g O}_2/\text{g substance}$	
BOD (% of ThOD)	0.02	

### 12.3. Bioaccumulative potential

denatonium benzoate (3734-33-6)		
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 (72 h, Leuciscus idus)	
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp., Chronic)	
BCF other aquatic organisms 2	190.00 (24 h, Algae)	
Log Pow	-1.34 (Experimental value)	
Bioaccumulative potential	Not bioaccumulative.	
diethylene glycol (111-46-6)		
BCF fish 1	100.00 (Other, 3 day(s), Leuciscus melanotus, Static system, Fresh water, Experimental value)	
Log Pow	-1.98 (Calculated, Other)	
Bioaccumulative potential	Not bioaccumulative.	

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denatonium benzoate (3734-33-6)		
Ecology - soil	No (test)data on mobility of the substance available.	
ethylene glycol (107-21-1)		
Surface tension	48.00 mN/m (20 °C)	
Ecology - soil	No (test)data on mobility of the substance available.	
diethylene glycol (111-46-6)		
Surface tension	0.05 N/m	
Log Koc	0.00 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
Ecology - soil	Highly mobile in soil.	
12.5. Other adverse effects		
Effect on the ozone layer	: No known effect on the ozone layer	
Other information	: Avoid release to the environment.	
SECTION 13: Disposal consideration	S	
13.1. Waste treatment methods		
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
Ecology - waste materials	: Avoid release to the environment.	

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Non Bulk (in quantities under 5,000 lbs in any one inner package): Not regulated by the US DOT

Bulk (in quantities 5,000 lbs or over in any one inner package):

Transport document description	:	UN3082 Environmentally hazardous substances, liquid, n.o.s. (Ethylene Glycol), 9, III
UN-No.(DOT)	:	UN3082
Proper Shipping Name (DOT)	:	Environmentally hazardous substances, liquid, n.o.s.
		Ethylene Glycol
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 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	:	No supplementary information available.

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**Transportation of Dangerous Goods** 

Refer to current TDG Canada for further Canadian regulations

#### Transport by sea

In accordance with IMDG / IMO

Proper Shipping Name (IMDG)

: Not regulated by IMDG (in quantites under 5,000 lbs in any one inner package)

#### Air transport

In accordance with IATA / ICAO

Proper Shipping Name (IATA)

: Not regulated by IATA (in quantites under 5,000 lbs in any one inner package)

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

Final Charge Pro-Series Concentrate Antifreeze and Coolant		
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	

denatonium benzoate (3734-33-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
ethylene glycol (107-21-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313			
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.		
CERCLA RQ	5000 lb(s)		
SARA Section 311/312 Hazard Classes	Refer to Section 2 for the OSHA hazard classification Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting.		
SARA Section 313 - Emission Reporting	porting Ethylene glycol is subject to Form R Reporting requirements.		
diethylene glycol (111-46-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
water (7732-18-5)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

#### 15.2. International regulations

#### CANADA

Final Charge Pro-Series 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.	

### 15.3. US State regulations

This product can expose you to ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

ethylene glycol (107	7-21-1)				
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	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	No	No		(ingested) 8,700 (oral) µg/day

### Safety Data Sheet

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

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	: 01/01/2024

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 exposure.

NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 1 - Materials that, under emergency conditions, can cause significant irritation.

1 - Materials that must be preheated before ignition can occur.
0 - Material that in themselves are normally stable, even under fire conditions.



#### 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 as to the terest to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC as the results of such use, the results of the use by others of this product 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.