

Safety Data Sheet

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

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Final Charge Yellow Concentrate Antifreeze & Coolant
1.2. Relevant identified uses of the subs	tance 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) 527 3887 (International) Chemtrec
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	ixture
GHS-US classificationAcute Tox. 4 (Oral)H302Repr. 2H361STOT RE 2H373Full 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
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)	<ul> <li>P201 - Obtain special instructions before use</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P260 - Do not breathe mist, spray, vapors</li> <li>P264 - Wash affected areas thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P280 - Wear personal protective equipment as required</li> <li>P301+P310 - If swallowed: Immediately call doctor/physician or poison center</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations</li> </ul>
2.3. Other hazards	
Other hazards not contributing to the classification	: Prolonged exposure may cause eye and skin irritation.
2.4. Unknown acute toxicity (GHS US)	

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#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

#### Not applicable

#### 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	< 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
sodium benzoate	(CAS No) 532-32-1	< 4	Acute Tox. 4 (Dermal), H312
water	(CAS No) 7732-18-5	< 4	Not classified
potassium p-tert-butylbenzoate	(CAS No) 16518-26-6	< 3	Repr. 2, H361
denatonium benzoate	(CAS No) 3734-33-6	30 - 50 ppm	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general :	If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. Seek immediate medical advice. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
First-aid measures after skin contact :	Remove contaminated clothing. Wash skin with plenty of water.
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. Rinse eyes with water as a precaution.
First-aid measures after ingestion :	If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. 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. Rinse mouth. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/injuries :	Suspected of damaging fertility or the unborn child.
Symptoms/injuries after ingestion :	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-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. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: 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.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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 e	quipment and emergency procedures
6.1.1.	.1.1. For non-emergency personnel	
Emerge	ncy procedures	: Ventilate spillage area.

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5.1.2. For emergency resp		
Protective equipment		e action without suitable protective equipment. Refer to section 8.2. For fer to section 8: "Exposure controls/personal protection".
6.2. Environmental prec	autions	
Avoid release to the environme	nt.	
6.3. Methods and materi	al for containment and cleaning up	
Methods for cleaning up	: Take up liquid spill in	to absorbent material.
Other information	: Dispose of materials	or solid residues at an authorized site.
6.4. Reference to other s	sections	
For further information refer to s	section 13.	
SECTION 7: Handling a	nd storage	
7.1. Precautions for safe		
Precautions for safe handling	8	ion of the work station. Wear personal protective equipment. Provide good s area to prevent formation of vapor.
Hygiene measures	: Do not eat, drink or s product.	moke when using this product. Always wash hands after handling the
7.2. Conditions for safe	storage, including any incompatibilities	5
Storage conditions	foodstuffs, drugs or p	e solid at temperatures below -18 °C (0 °F). Do not store near food, botable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. n empty. Store in a well-ventilated place. Keep cool.
Incompatible products	: Keep away from stro	ng acids, strong bases and oxidizing agents.
7.3. Specific end use(s)		
No additional information availa	ble	
SECTION 8: Exposure o	ontrols/personal protection	
8.1. Control parameters		
ethylene glycol (107-21-1)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m³
ACGIH	Remark (ACGIH)	Upper Respiratory Tract (URT) & Eye irritant
OSHA	Not applicable	
8.2. Exposure controls	1	
Appropriate engineering control	s : Ensure good ventilat	ion of the work station.
Hand protection	: Protective gloves.	
Eye protection	: Safety glasses.	
Skin and body protection	: Wear suitable protec	tive clothing
Respiratory protection		above exposure limits wear appropriate respiratory protection.
Environmental exposure control	•	
Environmental exposure contro	S Avoid release to the	environment.
SECTION 9: Physical ar	nd chemical properties	
9.1. Information on basi	c physical and chemical properties	
Physical state	: Liquid	
Color	: Yellow	
Odor	: Mild	
Odor threshold	: No data available	
pH 50% water solution	: 8.6	
Relative evaporation rate (butyl		
Melting point	. Not applicable	

: 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56

: 400 °C (752 °F) [100% Ethylene Glycol] Literature

: -18 °C (0 °F) : 158 °C (242 °F)

: No data available

EN (English)

Freezing point

Auto-ignition temperature Decomposition temperature

Boiling point

Flash point

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Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg @ 20 ℃
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 1.12
Density	: 1.12 kg/l (9.3 lbs/gal)
Solubility	: Water: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: Not applicable.
Explosive limits	: 3.2 - 15.3 vol %
9.2. Other information	
VOC content	: 0.00 %
<b>SECTION 10: Stability and reactivi</b>	ity
10.1. Reactivity	
No dangerous reactions known under normal	conditions of use.
-	
Stable.	
10.3. Possibility of hazardous reaction	IS
Hazardous polymerization will not occur.	
10.4. Conditions to avoid	
Keep away from any flames or sparking source	ce.
10.5. Incompatible materials	
Keep away from strong acids, strong bases a	and oxidizing agents
reop andy norm energy acide, energy sacces a	
10.6. Hazardous decomposition produ	icts
10.6.         Hazardous decomposition produ           alcohols.         Aldehydes.         Ethers.	icts
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alcohols. Aldehydes. Ethers. SECTION 11: Toxicological inform 11.1. Information on toxicological effect Acute toxicity ethylene glycol (107-21-1) LD50 oral rat ATE US (oral) denatonium benzoate (3734-33-6) LD50 oral rat LD50 dermal rabbit ATE US (oral) sodium benzoate (532-32-1) LD50 dermal rat LD50 dermal rat LD50 dermal rat LD50 dermal ratbit ATE US (dermal) diethylene glycol (111-46-6)	hation         cts         : Oral: Harmful if swallowed.         > 5,000.00 mg/kg (Rat; Literature study)         500.00 mg/kg bodyweight         584.00 mg/kg (Rat; Literature study)         > 2,000.00 mg/kg (Rat; Literature study)         584.00 mg/kg (Rat)         2,700.00 mg/kg (Rat)         2,000.00 mg/kg (Babit)         2,000.00 mg/kg (Babit)         2,000.00 mg/kg bodyweight

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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	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
exposure)	· ······
Aspiration hazard	: Not classified
Symptoms/injuries after ingestion	: The lethal dose in humans is estimated to be 100 mL (3 oz).

<b>SECTION 12</b>	2: Ecological	l information

12.1. Toxicity

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)	
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)	
sodium benzoate (532-32-1)		
LC50 fish 1	> 100.00 mg/l (LC50; 96 h; Pimephales promelas)	
EC50 Daphnia 1	< 650.00 mg/l (EC50; 48 h)	
EC50 Daphnia 2	> 100.00 mg/l (EC50; 48 h)	
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

ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.47 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance
ThOD	1.29 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.36
denatonium benzoate (3734-33-6)	
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.
sodium benzoate (532-32-1)	
Persistence and degradability	Readily biodegradable in water.
diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.51 g O <sub>2</sub> /g substance
ThOD	1.51 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.02

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12.3. Bioaccumulative potential	
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).
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).
sodium benzoate (532-32-1)	
Log Pow	0.84
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 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 °C / 68 °F)
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 ecological damage caused by this product.

<b>SECTION 13: Disposal consideratio</b>	ns
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	: Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

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

#### Department of Transportation (DOT) In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Hazard labels (DOT) : UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III

#### : UN3082

- : Environmentally hazardous substances, liquid, n.o.s.
- : 9 Class 9 Miscellaneous hazardous material 49 CFR 173.140
- : 9 Class 9 (Miscellaneous dangerous materials)



Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx)

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: III - Minor Danger : 203

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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
Emergency Response Guide (ERG) Number	: 171
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 Canadia	an 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 IMDG (in quantities under 5,000 lbs in any one inner package)

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Final Charge Yellow Concentrate Antifreeze	& Coolant	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	
ethylene glycol (107-21-1)		
Listed on the United States TSCA (Toxic Substa Subject to reporting requirements of United Stat		
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	Immediate (acute) health hazard Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting	
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.	
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		

#### 15.2. International regulations

CANADA

#### **WHMIS Classification**

**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] Xn; R22

Full text of R-phrases: see section 16

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#### National regulations

Final Charge Yellow Concentrate Antifreeze & Coolant           DSL (Canada): The intentional ingredients of this product are listed	
Doe (danada). The intentional ingredients of this product are insted	
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**

#### Full text of H-statements:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure

#### SDS GHS US (GHS HazCom 2012) OWI

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