

Safety Data Sheet

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

	n of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Full Force Long Life Concentrate Antifreeze and Coolant
SDS ID	: 115072
	ses of the substance or mixture and uses advised against
Use of the substance/mixture	: Antifreeze & Coolant
1.3. Details of the supplier	r of the safety data sheet
Old World Industries, LLC 3100 Sanders Road Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com	
1.4. Emergency telephone	number
Emergency number	: 800 424 9300 (United States); 00 1 703 527 3887 (International) Chemtrec
SECTION 2: Hazards ider	ntification
2.1. Classification of the s	ubstance or mixture
GHS-US classification	
	302 Harmful if swallowed.
· · · · · · · · · · · · · · · · · · ·	361 Suspected of damaging fertility or the unborn child.
toxicity — Repeated exposure, Category 2	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Full text of H statements : see see	ction 16
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	GHS07 GHS08
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: Harmful if swallowed. Suspected of damaging fertility or the unborn child. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Precautionary statements (GHS-L	US) : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, vapors Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product.

Wear personal protective equipment as required.

local/regional/national/international regulations

If exposed or concerned: Get medical advice/attention.

If swallowed: Immediately call doctor/physician or poison center

If swallowed: rinse mouth. Do NOT induce vomiting If inhaled: Remove person to fresh air and keep comfortable for breathing

Dispose of contents/container to appropriate waste disposal facility, in accordance with

Store locked up.

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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. 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 (solvent0	(CAS-No.) 7732-18-5	1 - 5	Not classified
potassium 2-ethylhexanoate (corrsion inhibitor)	(CAS-No.) 3164-85-0	0 - 5	Repr. 2, H361
sodium 2-ethylhexanoate (corrsion inhibitor)	(CAS-No.) 19766-89-3	0 - 5	Repr. 2, H361
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 you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable fo breathing. If not breathing, give artificial respiration. If you feel unwell, seek medical advice.	r
First-aid measures after skin contact	Wash skin with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes), Get medical advice/attention.	I
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 mediadvice 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 medica 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	both acute and delayed	
Symptoms/effects	Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn chil	d.
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. The lethal doe in humans is estimated to be 100 mL (3 oz).	se

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.

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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.

SECTION 6: Accidental release measures			
6.1.	5.1. Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Emergen	cy procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protective	e equipment	: Equip cleanup crew with proper protection. Use personal protective equipment as required.	
Emergen	cy procedures	: Ventilate area.	
6.2.	Environmental precautions		
Prevent e	entry to sewers and public waters. Notify a	authorities if liquid enters sewers or public waters.	

shovel into container for disposal. Store away from other materials.

6.3.	Methods and material for containme	nt	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

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 hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, includin	ng 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

denatonium benzoate (3734-33-6)		
Not applicable		
ethylene glycol (107-21-1)		
ACGIH	Local name	Ethylene glycol
ACGIH	ACGIH TWA (mg/m³)	10 mg/m ³
ACGIH	ACGIH TWA (ppm)	25 ppm (Vapor fraction)

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ethylene glycol (107-21-1)		
ACGIH	ACGIH STEL (mg/m³)	10 mg/m ³ (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		
potassium 2-ethylhexanoate (3164-85-0)		
Not applicable		
sodium 2-ethylhexanoate (19766-89-3)		
Not applicable		

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.

SECTION 9: Physical and chemica	al properties
9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Molecular mass	: 62.07 g/mol Ethylene Glycol
Color	: Yellow
Odor	: Mild
Odor threshold	: No data available
pH 50% water solution	: 8
Relative evaporation rate (butylacetate=1)	: Nil
Freezing point	: -18 °C (0 °F)
Boiling point	: 158 °C (317 °F)
Flash point	: 116 °C (241 °F) [100% Ethylene Glycol] <i>ASTM D56</i>
Auto-ignition temperature	: 400 °C (752 °F) [100% Ethylene Glycol] <i>Literature</i>

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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
/apor pressure	: < 0.1 @ 20 ℃
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 1.12
Density	: 1.12 kg/l (9.34 lbs/gal)
olubility	: Water: Complete
og Pow	: No data available
og Kow	: No data available
′iscosity, kinematic	: No data available
′iscosity, dynamic	: No data available
Explosive limits	: 3.2 - 15.3 vol %
Explosive properties	: Not applicable.
Dxidizing properties	: Not applicable.
.2. Other information	
OC content	: 0%
ECTION 10: Stability and react	tivity
0.1. Reactivity	
lo dangerous reactions known under norr	nal conditions of use.
0.2. Chemical stability	
Stable.	
0.3. Possibility of hazardous react	ions
lo dangerous reactions known under norr	mal conditions of use.
0.4. Conditions to avoid	
	away from any flames or sparking source.
0.5. Incompatible materials	, , , , , , , , , , , , , , , , , , , ,
Keep away from strong acids, strong base	es and exidizing agents
0.6. Hazardous decomposition pro	
Alcohols. Aldehydes. Carbon dioxide. Carl	
SECTION 11: Toxicological info	rmation
1.1. Information on toxicological e	ffects
Acute toxicity	: Not classified
denatonium benzoate (3734-33-6)	
LD50 oral rat	584 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Literature study, Dermal)
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)	
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
kin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	
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. Suspected of damaging fertility or the unborn child.	
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. The lethal dose in humans is estimated to be 100 mL (3 oz).	

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 g O_2/g substance	
ThOD	1.29 g O_2/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 g O_2/g substance	
ThOD	1.51 g O_2/g substance	
BOD (% of ThOD)	0.02	

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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.		

Mobility in soil 12.4.

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	ns
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):

: UN3082 Environmentally hazardous substances, liquid, n.o.s. (Ethylene Glycol), 9, III
: UN3082
: Environmentally hazardous substances, liquid, n.o.s.
Ethylene Glycol
: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
: III - Minor Danger

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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)	
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.
Transportation of Dangerous Goods	
Refer to current TDG Canada for further Canada	dian 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	
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SECTION 15: Regulatory information 15.1. US Federal regulations	
15.1. US Federal regulations	and Coolant Toxic Substances Control Act (TSCA): The intentional ingredients of this
15.1. US Federal regulations Full Force Long Life Concentrate Antifreeze	and Coolant
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Safety Data Sheet

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

15.2. International regulations

CANADA

Full Force Long 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.

sodium 2-ethylhexanoate (19766-89-3)

Listed on the Canadian DSL (Domestic Substances List)

15.3. US State regulations

WARNING:

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	/-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

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.
H361	Suspected of damaging fertility or the unborn child.
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 1

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