

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/01/2020

ECTION 1: Identification of the	substance/mixture and of the company/undertaking
.1. Product identifier	
roduct form	: Mixture
roduct name	: Full Force 50/50 Prediluted Antifreeze and Coolant
.2. Relevant identified uses of the	substance or mixture and uses advised against
se of the substance/mixture	: Antifreeze & Coolant
.3. Details of the supplier of the sa	fety data sheet
Dd World Industries, LLC 100 Sanders Road lorthbrook, IL 60062 - USA (847) 559-2000 <u>ww.oldworldind.com</u>	
.4. Emergency telephone number	
mergency number	: 800 424 9300 (United States); 00 1 703 527 3887 (International) Chemtrec
ECTION 2: Hazards identification	on .
.1. Classification of the substance	or mixture
HS-US classification	
cute toxicity (oral), H302	Harmful if swallowed.
ategory 4 pecific target organ H373 oxicity — Repeated	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
xposure, Category 2 ull text of H statements : see section 16	
.2. Label elements	
HS-US labelling	
lazard pictograms (GHS-US)	: GHS07 GHS08
ignal word (GHS-US)	: Warning
azard statements (GHS-US)	: Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
recautionary statements (GHS-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. If swallowed: Immediately call doctor/physician or poison center If swallowed: inse mouth. Do NOT induce vomiting If inhaled: Remove person to fresh air and keep comfortable for breathing If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to appropriate waste disposal facility, in accordance with

No additional information available

Safety Data Sheet

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

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	(CAS-No.) 107-21-1	45 - 50	Acute Tox. 4 (Oral), H302
water	(CAS-No.) 7732-18-5	45 - 50	Not classified
diethylene glycol	(CAS-No.) 111-46-6	1 - 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
denatonium benzoate	(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 for breathing. If not breathing, give artificial respiration. 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: 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 effe	ects, 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. The lethal dose

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.

in humans is estimated to be 100 mL (3 oz).

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Water fog. Fine water spray. Foam. Carbon dioxide. Dry chemical powder. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream. May spread fire.
5.2. Special hazards arising from the sub	ostance 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.

Safety Data Sheet

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

5.3.	Special protective equipment and precautions for fire-fighters		
Firefight	ting 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.	
Protecti	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Emerge	ncy procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protectiv	ve equipment	: Equip cleanup crew with proper protection. Refer to section 8.2.	
Emerge	ncy 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.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.
7.2. Conditions for safe storage, includin	ig 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 -37 °C (-34 °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 (1	07-21-1)	
ACGIH	Local name	Ethylene glycol
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH	ACGIH TWA (ppm)	25 ppm (Vapor fraction)
ACGIH	ACGIH STEL (mg/m ³)	10 mg/m³ (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		
1/01/2020	EN /English)	2/0

Safety Data Sheet

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

water (7732-18-5) 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 chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Molecular mass	: 62.07 g/mol Ethylene Glycol	
Color	: Green	
Odor	: Mild	
Odor threshold	: No data available	
рН	: 10.5 - 11	
Relative evaporation rate (butylacetate=1)	: Nil	
Freezing point	: -37 °C (-34 °F)	
Boiling point	: 107 °C (224 °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	
Flammability (solid, gas)	: No data available	
Vapor pressure	: < 0.1 mm Hg @ 20 °C	
Relative vapor density at 20 °C	: No data available	
Specific Gravity	: 1.06	
Density	: 1.06 kg/l (8.84 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 limits	: Not applicable	

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

Serious eye damage Respiratory or skin s Germ cell mutagenic Carcinogenicity Reproductive toxicity STOT-single exposu	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified pH: 10.5 - 11 : Not classified pH: 10.5 - 11 : Not classified icity : Not classified : Not classified : Not classified : Not classified : Not classified : icity : Not classified : Not classified : Not classified	or repeated exposure (oral).
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral)	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified pH: 10.5 - 11 : Not classified pH: 10.5 - 11 : Not classified icity : Not classified : Not classified : Not classified : Not classified : Not classified : icity : Not classified : Not classified : Not classified	or repeated exposure (oral).
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal) Skin corrosion/irritati Serious eye damage Respiratory or skin s Germ cell mutagenic Carcinogenicity Reproductive toxicity	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified icity : Not classified ivity : Not classified ity : Not classified	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal) Skin corrosion/irritati Serious eye damage Respiratory or skin s Germ cell mutagenic Carcinogenicity Reproductive toxicity	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified icity : Not classified ivity : Not classified ity : Not classified	
LD50 oral rat LD50 dermal rabbin LC50 inhalation rat ATE US (oral) ATE US (dermal) Skin corrosion/irritati Serious eye damage Respiratory or skin s Germ cell mutagenic Carcinogenicity	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified pH: 10.5 - 11 : Not classified icity : Not classified	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal) Skin corrosion/irritati Serious eye damage Respiratory or skin s Germ cell mutagenic	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified pH: 10.5 - 11 : Not classified icity : Not classified	
LD50 oral rat LD50 dermal rabbin LC50 inhalation rat ATE US (oral) ATE US (dermal) kin corrosion/irritati erious eye damage	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified pH: 10.5 - 11 : Not classified sensitisation : Not classified	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal) kin corrosion/irritati erious eye damage	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 ge/irritation : Not classified pH: 10.5 - 11	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal) kin corrosion/irritati	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11 : Not classified	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal) kin corrosion/irritati	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified pH: 10.5 - 11	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal)	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight ation : Not classified	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral) ATE US (dermal)	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight 11890 mg/kg bodyweight	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat ATE US (oral)	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence) 500 mg/kg bodyweight	
LD50 oral rat LD50 dermal rabbi LC50 inhalation rat	bit 11890 mg/kg (Rabbit, Dermal) at (mg/l) > 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence)	
LD50 oral rat	bit 11890 mg/kg (Rabbit, Dermal)	
LD50 oral rat		
	Oral)	
diathylana alyaal	19600 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, R	Rat Male Experimental value
LC50 inhalation rat ATE US (oral)	at (mg/l) > 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inha 500 mg/kg bodyweight	alauon (aerosol))
LCE0 inholeting and	Experimental value, Aqueous solution, Oral, 7 day(s))	alation (corport))
LD50 oral rat	7712 mg/kg bodyweight (according to BASF-internal standar	rds, Rat, Male / female,
ethylene glycol (1	107-21-1)	
ATE US (oral)	584 mg/kg bodyweight	
LD50 dermal rabbi		
LD50 oral rat	584 mg/kg (Rat, Literature study, Oral)	
denatonium benz	zoate (3734-33-6)	
cute toxicity	: Not classified	
	tion on toxicological effects	
	Toxicological information	
	es. Carbon dioxide. Carbon monoxide. Ethers. Fume.	
D.6. Hazardou	us decomposition products	
eep away from stro	rong acids, strong bases and oxidizing agents.	
0.5. Incompati	atible materials	
xtremely high or lov	ow temperatures. Keep away from any flames or sparking source.	
0.4. Condition	ons to avoid	
o dangerous reacti	tions known under normal conditions of use.	
	ity of hazardous reactions	
Stable.		
0.2. Chemical	Il stability	
lo dangerous reacti	tions known under normal conditions of use.	
0.1. Reactivity		
ECTION 10: S	Stability and reactivity	
OC content	. 0 /0	
.2. Other info OC content	: 0 %	
kidizing properties	s . Not applicable.	

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

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.
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

Toxicity 12.1.

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 O₂/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		

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)	0.21 - 0.6 (Procambarus sp., Chronic)		
BCF other aquatic organisms 2	190.00 (24 h, Algae)	190.00 (24 h, Algae)		
Log Pow	-1.34 (Experimental value)	-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)			
01/01/2020		6/0		

Safety Data Sheet

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

diethylene glycol (111-46-6)	
Log Pow	-1.98 (Calculated, Other)
Bioaccumulative potential Not bioaccumulative.	

12.4. Mobility in soil

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.	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)	0.00 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
Ecology - soil	Highly mobile in soil.	Highly mobile in soil.	

Effect on the ozone layer

: No known effect on the ozone layer

Other information

12.5.

: Avoid release to the environment.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal recommendations	 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

Other adverse effects

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

Safety Data Sheet

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

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 furth	er 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

Full Force 50/50 Prediluted 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 Sub	stances Control Act) i	nventory		
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)	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	RA Section 313 - Emission Reporting 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

Full Force 50/50 Prediluted 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.

Safety Data Sheet

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

ethylene glycol (107	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

: 01/01/2020

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

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

NFPA fire hazard NFPA reactivity : 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 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.