

Safety Data Sheet

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

I. Product identifier oduct form : Mixture oduct name : Full Force Conventional Green 50/50 Prediluted Antifreeze and Coolant 28 ID : 115069 22. Relevant identified uses of the substance or mixture and uses advised against e e of the substance/mixture : Antifreeze & Coolant 3. Details of the supplier of the safety data sheet d d World industries, LLC 00 Sanders Road widworldind.com 4. Emergency telephone number : 800 424 9300 (United States); 00 1 703 527 3887 (International) chemtrec Certion 2: Hazards identification : Chemtrec Statistication of the substance or mixture to intervent if swallowed. tegory 2 lit et toxicity (oral), H302 Harmful if swallowed. tegory 4 eoific target organ H373 May cause damage to organs (kidneys) through prolonged or repeated exposure (oral). posure, Category 2 lit levice if H statements: see section 16 Emergence if the substance or information if
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2. Label elements
HS-US labelling izard pictograms (GHS-US) :
gnal word (GHS-US) : Warning
izard statements (GHS-US) : Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
 ecautionary 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: rinse 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 local/regional/national/international regulations

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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	45 - 50	Acute Tox. 4 (Oral), H302
water (solvent)	(CAS-No.) 7732-18-5	45 - 50	Not classified
diethylene glycol (antifreezing agent)	(CAS-No.) 111-46-6	1 - 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
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 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	cts, 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 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 measu	ires
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 substance or mixture
Fire hazard	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Product is not flammable or combustible but may burn under fire conditions.
Reactivity	: No dangerous reactions known under normal conditions of use.
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5.3. Special protective equipment and	processions for first fighters
	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
Firefighting instructions	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 me	asures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	. Equip cleanup group with proper protection. Defer to contian 9.2
Protective equipment	: Equip cleanup crew with proper protection. Refer to section 8.2.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Not	tify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	nent 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
J. J	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, inclue	Jing 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	
	construction
SECTION 8: Exposure controls/per	
8.1. Control parameters	
denatonium benzoate (3734-33-6)	
Not applicable	

Not applicable		
ethylene glycol (107-21-1)		
ACGIH	Local name	Ethylene glycol
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
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

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diethylene	glycol (111-46-6)
Not applicab	ble
water (7732	2-18-5)
Not applicab	ble

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	l properties	
9.1. Information on basic physical and	Information on basic physical and chemical properties	
Physical state	: Liquid	
Molecular mass	: 62.07 g/mol Ethylene Glycol	
Color	: Green	
Ddor	: 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] Literature	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
/apor pressure	: < 0.1 mm Hg @ 20 ℃	
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	
_og Kow	: No data available	
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/iscosity, kinematic	: No data available
/iscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: Not applicable.
Dxidizing properties	: Not applicable.
0.2. Other information	
/OC content	: 0%
SECTION 10: Stability and react	tivity
I0.1. Reactivity	
No dangerous reactions known under norr	nal conditions of use.
0.2. Chemical stability	
Stable.	
0.3. Possibility of hazardous react	ions
No dangerous reactions known under norr	
0.4. Conditions to avoid	
	away from any flames or sparking source.
0.5. Incompatible materials	es and ovidizing agonte
Keep away from strong acids, strong base	s and oxidizing agents.
0.6. Hazardous decomposition pro	
Alcohols. Aldehydes. Carbon dioxide. Carl	oon monoxide. Ethers. Fume.
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,
LD50 dermal rabbit	Oral) 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 pH: 10.5 - 11
Serious eye damage/irritation	pH: 10.5 - 11 : Not classified
enous eye damage/imtation	
Pospiratory or skip consitiontion	pH: 10.5 - 11 : Not classified
Respiratory or skin sensitisation	
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
, ,	: Not classified
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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.
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

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	

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)			

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ethylene glycol (107-21-1)			
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.		

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.			
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 conside	erations			
40.4 Maste the store with weath a da				

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

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 UN-No.(DOT)	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (Ethylene Glycol), 9, III : 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)

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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.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Refer to current TDG Canada for further Cana	idian 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 Conventional Green 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 Subst	ances Control Act) i	nventory		
ethylene glycol (107-21-1)				
Listed on the United States TSCA (Toxic Subs Subject to reporting requirements of United Sta				
EPA TSCA Regulatory Flag	T - T - indicates	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	Ethylene glycol i	Ethylene glycol is subject to Form R Reporting requirements.		
diethylene glycol (111-46-6)				
Listed on the United States TSCA (Toxic Subs	ances Control Act) i	nventory		
water (7732-18-5)				
Listed on the United States TSCA (Toxic Subs	ances Control Act) i	nventory		

15.2. International regulations

CANADA

Full Force Conventional Green 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.

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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 (10	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

hylene glycol (107-21-1)
.S Massachusetts - Right To Know List .S New Jersey - Right to Know Hazardous Substance List .S Pennsylvania - RTK (Right to Know) List
ethylene glycol (111-46-6)
S Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information	
Revision date	: 01/01/2024

Full text of H-statements:

skin irritation.
serious eye irritation.
se respiratory irritation.
se damage to organs through prolonged or repeated

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 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.