

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 04/20/2022

SECTION 1: Identific	ation of the substance/mixture and of the company/undertaking
1.1. Product identifi	
Product form	: Mixture
Product name	: PEAK Original Equipment Technology North American Vehicles Extended Life GOLD 5050 Prediluted Antifreeze and Coolant
SDS ID	: 115029
1.2. Relevant identif	ed uses of the substance or mixture and uses advised against
Use of the substance/mixtu	e : Antifreeze & Coolant
1.3. Details of the su	pplier 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 tele	hone number
Emergency number	: 800 424 9300 (United States); 00 1 703 527 3887 (International) Chemtrec
SECTION 2: Hazards	identification
2.1. Classification o	the substance or mixture
GHS-US classification	
Acute toxicity (oral),	H302 Harmful if swallowed.
Category 4 Specific target organ toxicity — Repeated exposure, Category 2 Full text of H statements : s	H373 May cause damage to organs (kidneys) through prolonged or repeated exposure (oral) be section 16
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-l	S) : GHS07 GHS08
Signal word (GHS-US)	: Warning
Hazard statements (GHS-L	 S) : Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Precautionary statements (SHS-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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2.3. 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	45 - 50	Acute Tox. 4 (Oral), H302
water (solvent)	(CAS-No.) 7732-18-5	45 - 50	Not classified
sodium benzoate (inhibitor)	(CAS-No.) 532-32-1	0.5 - 5	Not classified
diethylene glycol (antifreezing agent)	(CAS-No.) 111-46-6	0.5 - 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 effect	ts, 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 measures	
5.1. Extinguishing media	
Suitable extinguishing media	: 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.

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5.2.	Special hazards arising from the subs	tance or mixture
Fire haza	rd :	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 pred	autions for fire-fighters
Firefightir	ng 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	n during firefighting :	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTIO	N 6: Accidental release measu	700

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6.1.	Personal precautions, protective ec	uipment 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. Notif	y authorities if liquid enters sewers or public waters.
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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, includi	ng 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 -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		
sodium benzoate (532-32-1)		
Not applicable		
ethylene glycol (107-21-1)		
ACGIH	Local name	Ethylene glycol
ACGIH	ACGIH TWA (mg/m³)	10 mg/m ³

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ethylene glycol (107-21-1)			
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	Not applicable		
water (7732-18-5)	water (7732-18-5)		
Not applicable			
denatonium benzoate (3734-33-6)			
Not applicable			

8.2. Appropriate engineering controls

No additional information available

Individual protection measures/Personal protective equipment 8.3.

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

If exposed to levels above exposure limits wear appropriate respiratory protection. Respiratory protection not required in normal conditions



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemica	l properties	
9.1. Information on basic physical and	d chemical properties	
Physical state	: Liquid	
Molecular mass	: 62.07 g/mol Ethylene Glycol	
Color	: Gold	
Odor	: Mild	
Odor threshold	: No data available	
pH	: 8.4	
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>	
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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg @ 20 ℃
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 1.07
Density	: 1.07 kg/l (8.88 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
Explosive properties	: Not applicable.
Oxidizing properties	: Not applicable.
9.2. Other information	
VOC content	: 0%

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Stable.

10.3. Possibility of hazardous reactions

Chemical stability

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures. Keep away from any flames or sparking source.

10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Alcohols. Aldehydes. Carbon dioxide. Carbon monoxide. Ethers. Fume.

SECTION 11: Toxicological information

11.1.	Information on	tovicological	offocts
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Acute toxicity

: Not classified

7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))
> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))
500 mg/kg bodyweight
19600 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)
11890 mg/kg (Rabbit, Dermal)
> 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence)
500 mg/kg bodyweight
11890 mg/kg bodyweight
584 mg/kg (Rat, Literature study, Oral)
> 2000 mg/kg (Rabbit, Literature study, Dermal)
584 mg/kg bodyweight

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Skin corrosion/irritation	: Not classified
	pH: 8.4
Serious eye damage/irritation	: Not classified
	pH: 8.4
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
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Aspiration hazard	: Not classified
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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

12.1. Toxicity

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)	
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)	

12.2. Persistence and degradability

sodium benzoate (532-32-1)		
Persistence and degradability	Readily biodegradable in water.	
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	

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diethylene glycol (111-46-6)	
ThOD	1.51 g O_2/g substance
BOD (% of ThOD)	0.02
denatonium benzoate (3734-33-6)	
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.
2.3. Bioaccumulative potential	
sodium benzoate (532-32-1)	
Log Pow	0.84
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 1 BCF other aquatic organisms 2	190.00 (24 h, Algae)
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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.
denatonium benzoate (3734-33-6)	
Log Pow	1.78 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2.4. Mobility in soil	
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.
denatonium benzoate (3734-33-6)	
Ecology - soil	No (test)data on mobility of the substance available.
2.5. Other adverse effects	
Effect on the ozone layer	: No known effect on the ozone layer
Other information	: Avoid release to the environment.
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SECTION 13: Disposal consideration	.
SECTION 13: Disposal consideration 3.1. Waste treatment methods	
SECTION 13: Disposal consideration 3.1. Waste treatment methods Product/Packaging disposal recommendations	 Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

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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)
Proper Shipping Name (DOT)

Class (DOT) Packing group (DOT) Hazard labels (DOT) : 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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: 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 passenger vessel.
Other information	: No supplementary information available.

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

PEAK Original Equipment Technology North American Vehicles Extended Life GOLD 5050 Prediluted Antifreeze and Coolant		
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	

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ethylene glycol (107-21-1)		
Listed on the United States TSCA (Toxic Subs Subject to reporting requirements of United St		
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	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		
denatonium benzoate (3734-33-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. International regulations

CANADA

PEAK Original Equipment Technology North American Vehicles Extended Life GOLD 5050 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.

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

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Full text of H-statements:

conditions.

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Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

NFPA fire hazard	

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

NFPA fire nazard

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



SDS GHS US (GHS HazCom 2012) OWI 1

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.