

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 31526 Issue date: 11/17/2023 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form Product name	<ul> <li>Mixture</li> <li>Develon Premixed Antifreeze/Coolant</li> </ul>
1.2. Recommended use and restrictions or	n use
No additional information available	
1.3. Supplier	
Develon 2905 Shawnee Industrial Way Suwanee, GA 30024 USA T (678) 714-6000	
1.4. Emergency telephone number	
Emergency number	: 1-800-424-9300 (CHEMTREC)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix GHS US classification	
Reproductive toxicity Category 2 Full text of H statements : see section 16	H361 Suspected of damaging fertility or the unborn child
2.2. GHS Label elements, including precau	itionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	<ul> <li>Warning</li> <li>H361 - Suspected of damaging fertility or the unborn child</li> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P308+P313 - If exposed or concerned: Get medical advice/attention.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>

2.3. Other hazards which do not result in classification

#### No additional information available

2.4. Unknown acute toxicity (GHS US)

#### No additional information available

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### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

### Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
ETHYLENE GLYCOL	CAS-No.: 107-21-1	25 – 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
POTASSIUM 2-ETHYLHEXANOATE	CAS-No.: 3164-85-0	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361 STOT SE 3, H335

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret 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	: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell. First aider: Pay attention to self-protection.
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect or irritation develops.</li> </ul>
First-aid measures after skin contact	: Wash skin with plenty of water. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell. Do not induce vomiting. If you feel unwell, seek medical advice.
4.2. Most important symptoms and e	ffects (acute and delayed)
Symptome/offecto	Not expected to present a significant bazard under antisinated conditions of permal use

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

#### Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
Fire hazard	: The vapors are denser than air and may travel along the ground. Distance ignition possible.	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so. Fight fire from safe distance and protected location. In case of fire: Stop leak if safe to do so.	
Protection during firefighting Other information	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>High temperature decomposition products are harmful by inhalation.</li> </ul>	

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SECTION 6: Accidental release mea	isures	
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Eliminate every possible source of ignition. Evacuate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.	
6.1.1. For non-emergency personnel		
Protective equipment	: Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment.	
Emergency procedures	: Evacuate unnecessary personnel. Do not breathe vapors. No open flames, no sparks, and no smoking.	
6.1.2. For emergency responders		
Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	: Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.	

#### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.	
Methods for cleaning up	: Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation. Clear up rapidly by scoop or vacuum.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage
7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Ensure good ventilation of the work station. Do not breathe vapors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Handling temperature	: ≤ 140 °F
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wear personal protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Separate working clothes from town clothes. Launder separately.
7.2. Conditions for safe storage, including any incompatibilities	

#### Storage conditions

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

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USA - OSHA - Occupational Exposure Limits         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         OSHA PEL STEL       10 mg/m² Contains highly refined petroleum oil         ETHYLENE GLYCOL (107-21-1)       USA - ACGIH - Occupational Exposure Limits         Local name       Ethylene glycol         ACGIH OEL TWA       5 mg/m² Contains highly refined petroleum oil         Z5 ppm (Vapor fraction)       Z5 ppm (Vapor fraction)         ACGIH OEL STEL       10 mg/m² (Inhalable fraction, Aerosol only)         50 ppm (Vapor fraction)       50 ppm (Vapor fraction)         Remark (ACGIH)       TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)         Regulatory reference       ACGIH 2023         USA - OSHA - Occupational Exposure Limits       5 mg/m² Contains highly refined petroleum oil         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         OSHA PEL TWA       5 mg/m² Contains highly refined petroleum oil         O			
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Protective gloves. nitrile rubber gloves Eye protection: Chemical goggles or safety glasses			
Eye protection: Chemical goggles or safety glasses			
Chemical goggles or safety glasses			
	Eye protection:		
Oldin and hade unstablish	Chemical goggles or safety glasses		
Skin and body protection:			
Wear suitable protective clothing. Wear impervious rubber safety shoes. Chemical resistant apron			
Respiratory protection:			
[In case of inadequate ventilation] wear respiratory protection. In case of inadequate ventilation wear respiratory protection.			



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### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C	<ul> <li>Liquid</li> <li>Yellow</li> <li>mild</li> <li>No data available</li> <li>8 - 8.6</li> <li>No data available</li> </ul>
Solubility Partition coefficient n-octanol/water (Log Pow)	: No data available : No data available
Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties Oxidizing properties	<ul> <li>No data available</li> </ul>

9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

#### None under normal use.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Acids. Oxidizing agent.

10.6. Hazardous decomposition products

fume. Carbon dioxide. Carbon monoxide.

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SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
	: Not classified
POTASSIUM 2-ETHYLHEXANOATE (3164-8	
LD50 oral	2400 – 2400 mg/kg body weight Animal: other:, Remarks on results: other:
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Rea across, Dermal, 14 day(s))
ATE US (oral)	2043 mg/kg body weight
ETHYLENE GLYCOL (107-21-1)	
LD50 dermal	> 3500 mg/kg body weight (Mouse, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat	> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Not classified pH: 8 – 8.6
POTASSIUM 2-ETHYLHEXANOATE (3164-8	5-0)
рН	6.9 (213.4 g/100 ml, 20 °C, OECD 105: Water Solubility)
ETHYLENE GLYCOL (107-21-1)	
pH	6 – 7.5 Source: GESTIS
Serious eye damage/irritation	: Not classified pH: 8 – 8.6
POTASSIUM 2-ETHYLHEXANOATE (3164-8	5-0)
рН	6.9 (213.4 g/100 ml, 20 °C, OECD 105: Water Solubility)
ETHYLENE GLYCOL (107-21-1)	
рН	6 – 7.5 Source: GESTIS
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity STOT-single exposure	<ul> <li>Suspected of damaging fertility or the unborn child.</li> <li>Not classified</li> </ul>
POTASSIUM 2-ETHYLHEXANOATE (3164-8	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
POTASSIUM 2-ETHYLHEXANOATE (3164-8	5-0)
NOAEL (subchronic,oral,animal/male,90 days)	180 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: other:
NOAEL (subchronic,oral,animal/female,90 days)	205 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: other:
ETHYLENE GLYCOL (107-21-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified

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Viscosity, kinematic	: No data available
ETHYLENE GLYCOL (107-21-1)	
Viscosity, kinematic	18.86 mm²/s (20 °C)
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Develon Premixed Antifreeze/Coolant	
LC50 - Fish [1]	> 100 mg/l
LC50 - Other aquatic organisms [1]	> 100 mg/l
POTASSIUM 2-ETHYLHEXANOATE (316	64-85-0)
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Read-across)
EC50 - Crustacea [1]	910 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Weight of evidence)
EC50 72h - Algae [1]	49.3 mg/l Source: ECHA
ErC50 algae	49.3 mg/l (Other, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, Nominal concentration)
LOEC (chronic)	63 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
ETHYLENE GLYCOL (107-21-1)	
LC50 - Fish [1]	40761 mg/l (96 h, Salmo gairdneri, Static system)
LC50 - Other aquatic organisms [1]	> 100 mg/l
EC50 - Crustacea [1]	> 10000 mg/l (24 h, Daphnia magna)
EC50 96h - Algae [1]	6.5 – 13 g/l (Selenastrum capricornutum, Growth)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

## 12.2. Persistence and degradability

Develon Premixed Antifreeze/Coolant				
Persistence and degradability	Not rapidly degradable			
POTASSIUM 2-ETHYLHEXANOATE (3164-85-0)				
Persistence and degradability	stence 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 <sub>2</sub> /g substance			
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance			
ThOD	1.29 g O <sub>2</sub> /g substance			

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ETHYLENE GLYCOL (107-21-1)	
BOD (% of ThOD)	0.36
12.3. Bioaccumulative potential	
POTASSIUM 2-ETHYLHEXANOATE (3164-8	5-0)
Partition coefficient n-octanol/water (Log Pow)	2.96 (Read-across, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
ETHYLENE GLYCOL (107-21-1)	
BCF - Fish [1]	10 (72 h, Leuciscus idus)
BCF - Other aquatic organisms [1]	0.21 – 0.6 (Procambarus sp., Chronic)
BCF - Other aquatic organisms [2]	190 (24 h, Algae)
Partition coefficient n-octanol/water (Log Pow)	-1.34 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

POTASSIUM 2-ETHYLHEXANOATE (3164-85-0)			
Ecology - soil Low potential for adsorption in soil.			
ETHYLENE GLYCOL (107-21-1)			
Mobility in soil 0.2 Source: HSDB			
Surface tension 48 mN/m (20 °C)			
Ecology - soil No (test)data on mobility of the substance available.			

12.5. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations

13.1. Disposal methods	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk. Do not re-use empty containers.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information	
In accordance with DOT	
14.1. UN number	

## DOT NA No

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14.2. UN proper shipping name			
Proper Shipping Name (DOT)	Environmentally hazardous substances, liquid, n.o.s. (Ethylene Glycol Contains Bitterant)		
14.3. Transport hazard class(es)			
<b>DOT</b> Transport hazard class(es) (DOT) Hazard labels (DOT)	: 9 : 9		
14.4. Packing group			
Packing group (DOT)	: 111		
14.5. Environmental hazards			
Other information	: No supplementary information available.		
14.6. Special precautions for user			
DOT			
Transport regulations (DOT) UN-No.(DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	<ul> <li>Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package).</li> <li>UN3082</li> <li>155</li> <li>203</li> <li>241</li> </ul>		

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	3	Commercial status	Flags
POTASSIUM 2-ETHYLHEXANOATE	3164-85-0	Present	Active	
ETHYLENE GLYCOL	107-21-1	Present	Active	

ETHYLENE GLYCOL (107-21-1)	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ 5000 lb	

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### 15.2. International regulations

### CANADA

### POTASSIUM 2-ETHYLHEXANOATE (3164-85-0)

Listed on the Canadian DSL (Domestic Substances List)

## ETHYLENE GLYCOL (107-21-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### National regulations

### ETHYLENE GLYCOL (107-21-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

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		8700 μg/day (oral)

### **SECTION 16: Other information**

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Full text of H-	phrases		
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 ha	irritation		
NFPA fire haza	rd : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.		
NFPA reactivity			
Hazard Rating Health	: 1 Slight Hazard - Irritation or minor reversible injury possible		

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Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B - Safety glasses, Gloves
Safety Data Sheet (SDS), USA	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.