

Safety Data Sheet

Product identifier used on the label: POLAR ANTIFREEZE/COOLANT

Stock Number: PODIAFBU

Revision Date: 06-06-2017

Replaces:

1. Identification

Product identifier used on the label: POLAR ANTIFREEZE/COOLANT

Stock Number: PODIAFBU

Other means of identification:

Synonyms: No data available

Recommended use of the chemical and restrictions on use:

Recommended use: Lubricants and performance fluids for the automotive industry

Restrictions on use: Uses other than those described above

Name, address, and telephone number
of the chemical manufacturer,
importer, or other responsible party:

Phone number:

E-mail address:

Emergency phone number:

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Hazard
Symbols:



GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure
Category 2

Acute Toxicity - Oral Category 4

Signal Word:

Warning

Hazard Statements:

Harmful if swallowed; May cause damage to organs through prolonged
or repeated exposure

Precautionary Statements:

Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after
handling. Do not eat, drink or smoke when using this product.

Response:

If swallowed: Call a poison center/doctor if you feel unwell. Get medical
advice/attention if you feel unwell. Rinse mouth.

Disposal:

Dispose of contents/container in accordance with

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local/regional/national/international regulations.

Hazards not otherwise classified: No data available

% unknown toxicity (Inhalation Gas): 100 % of the mixture consists of ingredient(s) of unknown toxicity.

% unknown toxicity (Inhalation Vapor): 100 % of the mixture consists of ingredient(s) of unknown toxicity.

% unknown toxicity (Inhalation Dust): 100 % of the mixture consists of ingredient(s) of unknown toxicity.

3. Composition/information on ingredients

Chemical Name	Common name and synonyms	CAS #	%
Diethylene glycol	No data available	111-46-6	1 - 5

One or more hazardous ingredient(s) is claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

- Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
- Eye Contact:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
- Skin Contact:** Wash with soap and water. Get medical attention if irritation develops or persists.
- Ingestion:** If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
- Most important symptoms/effects, acute and delayed:** Harmful if swallowed May cause damage to organs through prolonged or repeated exposure
- Indication of immediate medical attention and special treatment needed, if necessary:** Get medical advice/attention if you feel unwell.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

- Suitable extinguishing media:** Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may

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be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

Unsuitable extinguishing media: No data available

Specific hazards arising from the chemical: No data available

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Special protective equipment and precautions for fire-fighters: No data available

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods and materials for containment and cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

7. Handling and storage

Precautions for safe handling: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer. No data available

Conditions for safe storage, including any incompatibilities:

Safe storage conditions: Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents

8. Exposure controls/personal protection

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OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical component	OSHA PEL	ACGIH TLV	ACGIH STEL	IDLH
No data available				

Appropriate engineering controls: General room ventilation might be required to maintain operator comfort under normal conditions of use.

Individual protection measures, such as personal protective equipment:

Respiratory Protection: Do not breathe dust/fume/gas/mist/vapors/spray.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin protection: Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Wear appropriate protective gloves to prevent skin exposure.

General hygiene conditions: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical state: Liquid

Color: No data available

Odor: Not determined

Odor Threshold: Not determined

pH: No data available

Melting point/freezing point:

Melting Point: No data available

Freezing point: No data available

Flash Point (°C): 119

Evaporation Rate: No data available

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Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	
Upper flammability or explosive limits:	Not established
Lower flammability or explosive limits:	Not established
Vapor pressure:	No data available
Vapor density:	2.1
Relative density:	1.12
Solubility(ies):	Not determined
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition Temperature:	Not determined
Viscosity:	No data available
Volatile organic compound (VOC) content and percentage of volatiles:	0.000000

10. Stability and reactivity

Reactivity:	
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None expected under standard conditions of storage.
Conditions to avoid (e.g., static discharge, shock, or vibration):	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	No data available

11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Ingestion
Symptoms related to the physical, chemical and toxicological	Harmful if swallowed May cause damage to organs through prolonged or repeated exposure

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characteristics:

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

- Ingestion Toxicity:** Harmful if swallowed
- Skin Contact:** This material is estimated to be slightly irritating (Primary Irritation Index is 0.5 - 3.0 [rabbits]). Can cause minor skin irritation, defatting, and dermatitis.
- Absorption:** Likely to be practically non-toxic based on animal data.
- Inhalation Toxicity:** No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
- Eye Contact:** This material is likely to be non-irritating to eyes based on animal data.
- Sensitization:** No data available
- Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
- Carcinogenicity:** None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.
- STOT-single exposure:** Based on available data, the classification criteria are not met.
- STOT-repeated exposure:** Classification has been based on toxicological information of the components in Section 3.
- Aspiration hazard:** Based on available data, the classification criteria are not met.
- Other information:** No data available

Numerical measures of toxicity (such as acute toxicity estimates):

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diethylene glycol	OLD50 Rat 1120 mg/kg	Dermal LD50 Rabbit = 11890 mg/kg	Inhalation LC50 (4h) Rat > 4.6 mg/L

Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
There are no components that are known or reported to cause cancer.			

12. Ecological information

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Ecotoxicity (aquatic and terrestrial, where available): No data available

Ecological Toxicity Data:

Chemical Name	CAS #	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
Diethylene glycol	111-46-6	84000 mg/L	No data available	Aquatic LC50 (96h) 75200 mg/L
Ethylene glycol	107-21-1	46300 mg/L	6500 - 13000 mg/L	Aquatic LC50 (96h) Rainbow Trout 41000 mg/L

Persistence and degradability: Biodegrades quickly.

Bioaccumulative potential: Bioconcentration is not expected to occur.

Mobility in soil: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Other adverse effects (such as hazardous to the ozone layer): No data available

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Dispose of contents and container in accordance with local/regional/national/international regulations.

Contaminated packaging: Empty containers may contain residues. Dispose of in the same way as waste product.

14. Transport information

Carriage of dangerous goods by road (DOT), rail or inland waterways:

UN number: UN3082

UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es): 9

Packing group, if applicable: III

DOT Basic Description: No data available

International carriage of dangerous goods by sea (IMDG/IMO):

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UN number: UN3082
 UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Transport hazard class(es): 9
 Packing group, if applicable: III
 EMS#: F-A, S-F

International carriage of dangerous goods by air (IATA):

UN number: Not regulated by IATA
 UN Proper shipping name: Not applicable
 Transport hazard class(es): Not applicable
 Packing group, if applicable: Not applicable

Environmental hazards (e.g., Marine pollutant (Yes/No)): None.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): No data available

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

TSCA Status: All components of this material are on the US TSCA Inventory or are exempt.

Regulated Components:

Chemical Name	CAS #	CERCLA	Sara EHS	Sara 313	U.S. HAP
Ethylene glycol	107-21-1	Y	N	Y	Y
Diethylene glycol	111-46-6	N	N	N	N

Chemical Name	CAS #	California Prop 65 - Cancer	California Prop 65 - Dev. Toxicity	California Prop 65 - Reprod fem	California Prop 65 - Reprod male
Ethylene glycol	107-21-1	N	N	N	N

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Diethylene glycol	111-46-6	N	N	N	N
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Chemical Name	CAS #	Massachusetts RTK List	New Jersey RTK List	Pennsylvania RTK List	Rhode Island RTK List	Minnesota Hazardous Substance List
Ethylene glycol	107-21-1	Y	Y	Y	N	Y
Diethylene glycol	111-46-6	N	N	Y	N	Y

16. Other information, including date of preparation or last revision.

SDS Prepared by:

HAZEMS

Revision Date:

06-06-2017

Revision Number:

15

Reason for revision:

Activated by Document Formulation Generation

References:

No data available

Other Info:

No data available

Disclaimer:

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.