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Warren Distribution, Inc.

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402-341-9397 402-977-5498
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MATERIAL SAFETY DATA SHEET

IDENTITY (As used on label and list):
POLAR ANTIFREEZE

PRODUCT CODE: PO01AF6P, PO01AFBU,
PO01AF55, PO01AFD5

NFPA Hazard Identification

	0 - Least
Health: 1	1 - Slight
Fire: 1	2 - Moderate
Reactivity: 0	3 - High
	4 - Extreme

Flash Point (deg F): 240 Method Used: COC
Flammable or Explosive Limits (approximate % by
volume in air) LEL: 3.2 UEL: 15.3

EXTINGUISHING MEDIA: Use water fog,
"alcohol" foam, dry chemical, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Use
NIOSH approved positive pressure, self-contained
breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
none

Section I - General Information

Warren Distribution, Inc.

2849 River Road
Council Bluffs, IA 51501
Emergency (402) 677-1331
Information (402) 341-9397
Chemtrec (800) 424-9300
Revised: 05/25/99

Section V - Reactivity Data

STABILITY: stable

INCOMPATIBILITY (MATERIALS TO AVOID):
strong bases at high temperatures, strong acids,
strong oxidizing agents, and materials reactive with
hydroxyl compounds

HAZARDOUS DECOMPOSITION OR
BYPRODUCTS: may produce carbon monoxide
and/or carbon dioxide during combustion as well as
other organic compounds incl. formaldehyde

HAZARDOUS POLYMERIZATION: will not occur
CONDITIONS TO AVOID: n/a

Section VI - Health Hazard Data

EYE CONTACT: moderately to severely irritating to
the eyes

SKIN CONTACT: mildly irritating to the skin,
slightly toxic with prolonged or repeated contact

INHALATION: Vapors and mists may cause
irritation of upper respiratory system.

INGESTION: May be harmful or fatal if swallowed.
May result in central nervous system depression and
kidney damage and liver damage

CARCINOGENICITY: This product has not been
identified as a carcinogen or probable carcinogen by
NTP, IARC, or OSHA.

Section III - Physical/Chemical Characteristics

Boiling Point (deg F): 325
Specific Gravity (H₂O=1): 1.13
Vapor Pressure (mm Hg): .06
Melting Point (deg F): 0
Vapor Density (Air=1): 2.0
Solubility in Water: 100%
Evaporation Rate (n-butyl Acetate=1): <0.01

APPEARANCE AND ODOR: colorless liquid, mild
odor

Section IV - Fire and Explosion Hazard Data

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation as described above. CNS depression may be evidenced by dizziness, headache, and nausea. Gross overexposure may result in unconsciousness and death. Kidney damage may be evidenced by changes in urine appearance, output, or edema.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Exposure may aggravate preexisting skin, eye, and respiratory conditions.

OTHER HEALTH INFORMATION: Ethylene Glycol has been shown to produce dose-related teratogenic effects in rats and mice when given high concentrations by gavage. At present, there is no evidence that ethylene glycol has caused birth defects in humans.

Section VII - First Aid Procedures

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Call for medical attention immediately..

SKIN CONTACT: Remove contaminated clothing. Immediately flush with water. Get medical attention if irritation continues.

INHALATION: Using proper respiratory protection, remove victim to fresh air. If breathing has stopped, administer artificial respiration. Call for medical attention.

INGESTION: If conscious, drink only two glasses of water and induce vomiting.

Section VIII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate respirator and protective clothing when cleaning up large spills. Prevent additional leakage if safe to do so. Dike and contain large spills; remove with vacuum trucks or pump to storage vessels. Soak up small spills with absorbent material. Keep out of sewers and drains.

WASTE DISPOSAL METHOD: Place in an appropriate disposal facility in compliance with local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place with adequate ventilation. Do not expose to extreme temperature or flames.

OTHER PRECAUTIONS: n/a

Section IX - Control Measures

RESPIRATORY PROTECTION: NIOSH approved atmosphere supplying respirator or air-purifying respirator for organic vapors with a dust or mist pre-filter.

VENTILATION: Mechanical general ventilation is recommended whenever this product is used in a confined space, is volatilized, is atomized, or is heated above ambient temperature.

PROTECTIVE GLOVES: Wear nitrile, neoprene, PVC, or natural rubber clothing for repeated or prolonged contact with skin.

EYE PROTECTION: Wear goggles if there is likelihood of contact with eyes.

OTHER PROTECTIVE EQUIPMENT: Wear nitrile, neoprene, PVC, or natural rubber clothing for repeated or prolonged contact with skin.

WORK PRACTICES/ENGINEERING CONTROLS: Keep containers closed when not in use. Use ventilation to control vapor concentrations.

PERSONAL HYGIENE: Wash skin thoroughly after contact, before breaks or meals, and at the end of the work period. Thoroughly clean contaminated clothing, including shoes, before re-use.

This material 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 received from sources outside our company and we believe that 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 safely 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.