



HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0

MATERIAL SAFETY DATA SHEET

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

PRODUCT CODE: **PO01AF6P, PO01AFD5, PODIAFBU**

NFPA Hazard Identification 0 – Least 1 – Slight 2 – Moderate 3 – High 4 - Extreme

Health: 1

Fire: 1

Reactivity: 0

Section I - General Information

Warren Distribution, Inc.

2849 River Road
Council Bluffs, IA 51501
Information (402) 341-9397

Emergency **(402) 677-1331**

Chemtec

(800) 424-9300

Reviewed: **12/31/02**

Section II - Composition/Information on Ingredients

COMPONENT NAME	%	CAS	OSHA PEL	ACGIH TLV
Ethylene Glycol	96	107-21-1	50ppm(ceiling)	50ppm(ceiling)

Section 313 Supplier Information

This product contains a chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-know Act of 1986 (40 CFR 372):

NON-HAZARDOUS INGREDIENTS

No IARC, NTP, OSHA and ACGIH listed carcinogens.

Section III - Hazards Identification

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.

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 IV - 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 V - Fire and Explosion Hazard Data

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 VI - Accidental Release Measures

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.

Section VII - Handling and Storage

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 VIII - Exposure Controls/Personal Protection

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.

Section IX- 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 X - 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 XI - Toxicological Information

See Section IV

Section XII - Ecological Information

Section XIII - Disposal Considerations

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

Section XIV - Transport Information

NOT A REGULATED ITEM ACCORDING TO DOT.

Section XV-Regulatory Information

SARA SECTION 313: This product contains 96% ethylene glycol, CAS 107-21-1.

WHMIS classification for product: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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.