



MATERIAL SAFETY DATA SHEET

IDENTITY (As used on label and list): **POLAR WINDSHIELD DEICER**

PRODUCT CODE: **POSF0062**

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

Health: 1

Fire: 3

Reactivity: 0

Section I - General Information

Warren Distribution, Inc.
2849 River Road
Council Bluffs, IA 51501
Information (402) 341-9397

Emergency (402) 677-1331 Chemtrec (800) 424-9300 Reviewed: **04/28/03**

Section II - Composition/Information on Ingredients

COMPONENT NAME	%	CAS	OSHA PEL	ACGIH TLV
Methyl Alcohol	55-70	67-56-1	200ppm	250ppm
Ethylene Glycol	5-10	107-21-1	50ppm	50ppm ceiling
Carbon Dioxide	1-10	124-38-9	10000ppm	5000ppm

Section III - Hazards Identification

EYE CONTACT: Can cause severe irritation, redness, tearing, or blurred vision.

SKIN CONTACT: May be absorbed in harmful amounts and cause blindness. Repeated skin contact may cause dermatitis.

INHALATION: may be absorbed in harmful amounts and cause blindness

INGESTION: If taken internally it may cause blindness.

CARCINOGENICITY: n/a

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Inhalation may cause coughing, shortness of breath, dizziness, intoxication, and collapse. Skin absorption can result in blurred vision, photophobia, and may cause acidosis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dermatitis, asthma

OTHER HEALTH INFORMATION: Methanol toxicity is antagonized with ethanol.

Section IV - First Aid Procedures

EYE CONTACT: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

SKIN CONTACT: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. Remove contaminated shoes promptly. Discard shoes saturated with this product.

INHALATION: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet, and get medical attention.

Section V - Fire and Explosion Hazard Data

Flash Point (deg F): 69 Method Used: TCC
Flammable or Explosive Limits (approximate % by volume in air) LEL: 3.2 UEL: ND

EXTINGUISHING MEDIA: Alcohol foam or water fog

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at location distant from material handling point.

Section V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May form toxic materials, carbon dioxide and carbon monoxide, etc.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: n/a

Section VI - Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate area of all unnecessary personnel. Wear full protective clothing and gear.

Section VII - Handling and Storage

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb small liquid spills on paper, vermiculite, floor absorbent, or other absorbent material, and transfer to hood.

For large spills; eliminate all ignition sources (flares, electric sparks, and flames, including pilot lights). Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required (that a spill has occurred).

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this datasheet must be observed.

OTHER PRECAUTIONS: None

**Section VIII -
Exposure Controls/Personal Protection**

RESPIRATORY PROTECTION: None under normal conditions of use.

VENTILATION: None under normal conditions of use.

PROTECTIVE GLOVES: None under normal conditions of use.

EYE PROTECTION: None under normal conditions of use.

OTHER PROTECTIVE EQUIPMENT: None under normal conditions of use.

WORK PRACTICES/ENGINEERING CONTROLS: Keep containers closed when not in use.

PERSONAL HYGIENE: Practice good personal hygiene.

Section IX- Physical/Chemical Characteristics

Boiling Point (deg F): 147	Specific Gravity (H ₂ O=1): .835	Vapor Pressure (mm Hg): 97.7
Melting Point (deg F): ND	Vapor Density (Air=1): >1	Solubility in water: ND
Evaporation Rate (n-butyl Acetate=1): slower than ether		

APPEARANCE AND ODOR: Clear, characteristic pungent odor - not good indicator of exposure level.

Section X - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Oxygen and strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon oxides and various hydrocarbons

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heat, open flame

Section XI - Toxicological Information

See Section IV

Section XII - Ecological Information

Section XIII - Disposal Considerations

WASTE DISPOSAL METHOD: For small amounts, allow volatile portion to evaporate in hood, giving ample time for vapors to clear duct work. For large spill, destroy by liquid incineration. For remainder, and in all aspects, disposal must be in accordance with all local, state, and federal regulations.

Section XIV - Transport Information

CONSUMER COMMODITY, ORM-D

Section XV-Regulatory Information

SARA SECTION 313: This product contains 55-70% methanol, CAS 67-56-1 and 5-10% 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.