



MATERIAL SAFETY DATA SHEET

IDENTITY (As used on label and list): **POLAR STARTING FLUID**

PRODUCT CODE: **POSF0081, POSF0082**

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

Health: 1

Fire: 4

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 Revised: 04/29/03

Section II - Hazardous Ingredients

COMPONENT NAME	%	CAS	OSHA PEL	ACGIH TLV	
Carbon Dioxide	1-10	124-38-9	10000ppm	5000ppm	30000ppmSTEL
Heptane	55-70	142-82-5	400ppm	400ppm	500ppmSTEL
Diethyl Ether	17-30	60-29-7	400ppm	400ppm	

Section III - Hazards Identification

EYE CONTACT: May cause severe irritation, redness, tearing, blurred vision

SKIN CONTACT: Prolonged or repeated contact can cause moderate irritation, defatting, and/or dermatitis.

INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation, central nervous system effects including dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness, and even asphyxiation.

INGESTION: can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs may cause chemical pneumonia, which may be fatal.

CARCINOGENICITY: n/a

SIGNS AND SYMPTOMS OF OVEREXPOSURE: As above

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Not determined

OTHER HEALTH INFORMATION: Primary route of entry is skin.

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.

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. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

Section V - Fire and Explosion Hazard Data

Flash Point (deg F): -49 Method Used: TCC

Flammable or Explosive Limits (approximate % by volume in air) LEL: 1.85 UEL: 48.0

EXTINGUISHING MEDIA: Regular foam, carbon dioxide, and dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Handle as extremely flammable liquid. Cool container exposed to heat with water. Use air-supplied breathing equipment for enclosed areas

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. Contents under pressure

Section VI - Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Extinguish all ignition sources (flares, electric sparks, and flames, including pilot lights). Persons not wearing protective equipment should be excluded from area of spill until leak has been repaired. Apply absorbent material to spill area.

Section VII - Handling and Storage

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. Never Store product in area above 120 F.

OTHER PRECAUTIONS: Do not puncture or incinerate

Section VIII - Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: If workplace exposure limits of product or any component is exceeded a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposed.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

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

Section IX- Physical/Chemical Characteristics

Boiling Point (deg F): 95 Specific Gravity (H₂O=1): .713 Vapor Pressure (mm Hg): 537.0
Melting Point (deg F): -177 Vapor Density (Air=1): >2.55 Solubility in Water : Slight
Evaporation Rate (n-butyl Acetate=1): 37.55

APPEARANCE AND ODOR: Clear, ether smell

Section X - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents

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

HAZARDOUS POLYMERIZATION: Cannot occur

CONDITIONS TO AVOID: n/a

Section XI - Toxicological Information

Not determined.

Section XII - Ecological Information

Not determined.

Section XIII - Disposal Considerations

WASTE DISPOSAL METHOD: Dispose of product in accordance with all local, state, and federal regulations.

Section XIV - Transport Information

U.S. DOT hazard classification

Proper shipping name:

Consumer Commodity, ORM-D, Limited Quantity

Technical name: None

UN Number: None

Hazard Class/ Packaging Group: None

Labels required: None

Section XV-Regulatory Information

EPA SARA 313: This product contains 17-30% diethyl ether, CAS 60-29-7.

This material safety data sheet and the information it contains are 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.