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MATERIAL SAFETY DATA SHEET

## ----- SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION -----

PRODUCT TRADE NAME : E P LUBE #95

PRIMARY APPLICATION: Industrial gear oil  
CAS NUMBER : Complex mixture  
SYNONYMS : None  
CHEMICAL FAMILY : Petroleum hydrocarbon oil plus multi-functional additives

MANUFACTURER: O. F. Zurn Company  
2736 N. Broad Street  
Phila., PA 19132

INFORMATION PHONE #: (215) 229-5268 PREPARER : John Ballinger  
EMERGENCY PHONE # : (215) 229-5268 REVISION DATE: 1/1/05

## ----- SECTION 2: COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS -----

All hazardous components of this product at a weight concentration of 1% or greater are listed below. (0.1% for carcinogens) THIS LIST IS CONFIDENTIAL AND IS NOT TO BE REPRODUCED.

COMPONENT / EXPOSURE LIMITS	CAS NUMBER	PERCENT
Hydrotreated heavy paraffinic distillate OSHA: PEL = 5 mg/m3 (mist) ACGIH: TLV = 5 mg/m3 (mist)	64742-54-7	50 - 70
Hydrotreated residual oils OSHA: PEL = 5 mg/m3 (mist) ACGIH: TLV = 5 mg/m3 (mist)	72623-83-7	20 - 35
	STEL = 10 mg/m3 (mist)	
	STEL = 10 mg/m3 (mist)	

## ----- SECTION 3: HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW: May cause slight irritation of skin and/or eyes.

POTENTIAL HEALTH EFFECTS:

PRIMARY ROUTES OF EXPOSURE - INHALATION: No  
SKIN : Yes  
EYE : No  
INGESTION : No

INHALATION: No acute effects expected. Vapor inhalation under  
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is misted or if vapors are generated from heating, overexposure may cause irritation of mucous membranes and the upper respiratory tract.

SKIN: No acute effects expected. Prolonged or repeated contact may remove skin oils, possibly leading to irritation and dermatitis.

EYE: No acute effects expected. Prolonged contact may cause irritation.

INGESTION: Material has a low order of acute oral toxicity.

CARCINOGENICITY - IARC(No) NTP(No) OSHA(No) ACGIH(No) OTHER(No)

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:  
Skin disorders

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SECTION 4: FIRST AID MEASURES

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INHALATION: None normally required. However, if overcome by vapor from hot product, immediately remove from exposure and seek medical attention. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to mist, remove from further exposure until excessive mist condition subsides. If respiratory discomfort persists, seek medical attention.

SKIN: Remove any contaminated clothing and thoroughly wash skin with soap and water. Launder or dry-clean clothing before reuse. If redness or swelling develops, obtain medical assistance. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE: Flush with clear water for at least 15 minutes or until irritation subsides. If irritation persists, obtain medical assistance.

INGESTION: Induction of vomiting not required. Obtain emergency medical attention.

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SECTION 5: FIRE FIGHTING MEASURES

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FLASH POINT (minimum): 500 F METHOD USED: COC

FLAMMABLE LIMITS IN AIR (% VOLUME) -  
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LOWER EXPLOSIVE LIMIT (LEL): 0.9  
UPPER EXPLOSIVE LIMIT (UEL): 7.0

FIRE AND EXPLOSION HAZARDS: This product can be made to burn (flash point > 200 F). Toxic fumes, gases, or vapors may evolve on burning. Container may rupture on heating.

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"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of.

EXTINGUISHING MEDIA: Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

HMS CLASSIFICATION: HEALTH: 0  
FLAMMABILITY: 1  
REACTIVITY: 0  
PERSONAL PROTECTION INDEX: C

SPECIFIC HAZARD: None listed.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

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Contain spill. Use personal protective equipment stated in section 8. Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations.

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SECTION 7: HANDLING AND STORAGE

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Keep containers closed when not in use. Do not handle or store near heat, sparks, flame or strong oxidants. NFPA Class IIIB storage.

Minimize breathing of vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean before re-use; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin

by waterless hand cleaners followed by washing thoroughly with soap and water.

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SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

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VENTILATION: Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Mechanical ventilation recommended.

PERSONAL PROTECTIVE EQUIPMENT -

EYE: Use splash goggles or face shield when eye contact may occur.

GLOVES: Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact. The following glove materials are acceptable: polyethylene, neoprene, nitrile, polyvinyl alcohol, viton.

RESPIRATOR: Concentration-in-air determines protection needed. Use only NIOSH certified respiratory protection. Respiratory protection usually not needed unless product is heated or misted. Half-mask air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable to 10 times the exposure limit. Full-face air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable to 50 times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures above 50 times the exposure limit. If exposure is above IDLH (immediately dangerous to life & health) or there is the possibility of an uncontrolled release or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA.

OTHER: Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact. The following materials are acceptable as protective clothing materials: polyvinyl alcohol (PVA), polyvinyl chloride (PVC), neoprene, nitrile, viton, polyurethane. Safety shower and eye wash availability

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recommended.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT (initial): 565 F  
 SPECIFIC GRAVITY (60 F): 0.90  
 DENSITY : 7.52 lb/gal  
 VAPOR PRESSURE (20 C) : < 0.1 mm Hg  
 VAPOR DENSITY : > 5 (air = 1)  
 SOLUBILITY IN WATER : Negligible  
 PH INFORMATION : n/a  
 % VOLATILES BY VOLUME : 0.00%  
 EVAPORATION RATE : < 0.01 (n-butyl acetate = 1)  
 APPEARANCE : Bright, clear, amber liquid

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ODOR : Slight  
ODOR THRESHOLD (PPM) : Not determined

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SECTION 10: STABILITY AND REACTIVITY  
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STABILITY: Stable

CONDITIONS TO AVOID: Sources of ignition

INCOMPATIBLE MATERIALS: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce fumes, smoke, carbon monoxide, and other asphyxiants.

POLYMERIZATION: Will not occur

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SECTION 11: TOXICOLOGICAL INFORMATION  
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ACUTE TOXICITY: This product is judged to have a low order of acute oral and dermal toxicity based on available component data.

CHRONIC TOXICITY: Prolonged or repeated skin and eye contact may produce irritation. However, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

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SECTION 12: ECOLOGICAL INFORMATION  
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AQUATIC TOXICITY: No data available.

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SECTION 13: DISPOSAL CONSIDERATIONS  
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WASTE DISPOSAL METHOD: Follow federal, state, and local E P LUBE #95

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regulations. This product is not a RCRA hazardous waste if uncontaminated. If "used", RCRA criteria (ignitability, reactivity, corrosivity, toxicity characteristics) must be determined. Do not flush product to a drain and/or a storm sewer. Contract to an authorized disposal service.

SPECIAL SHIPPING INFORMATION: None

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SECTION 14: TRANSPORTATION INFORMATION  
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DOT - PROPER SHIPPING NAME : Petroleum oil, noibn  
HAZARD CLASS : Not regulated  
IDENTIFICATION NUMBER: Not regulated  
PACKING GROUP : Not applicable  
LABEL REQUIRED : Not regulated

IMDG - PROPER SHIPPING NAME: No data available

IATA - PROPER SHIPPING NAME: No data available

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SECTION 15: REGULATORY INFORMATION  
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EPA/TSCA INVENTORY: All components of this product are listed.

SARA 302 THRESHOLD PLANNING QUANTITY: Not applicable

SARA 304 / CERCLA 302.4 REPORTABLE QUANTITY: Not applicable

SARA 311 CATEGORIES - IMMEDIATE (ACUTE) HEALTH EFFECTS : No  
DELAYED (CHRONIC) HEALTH EFFECTS : No  
FIRE HAZARD : No  
SUDDEN RELEASE OF PRESSURE HAZARD: No  
REACTIVITY HAZARD : No

SARA 313 SUBSTANCES ---  
None

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SECTION 16: OTHER INFORMATION  
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WHMIS CLASSIFICATION: Not controlled

DISCLAIMER: The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of the O. F. Zurn Company's knowledge; however, the O. F. Zurn Company makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. The O. F. Zurn Company assumes no responsibility for injury to recipient or to third

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persons or for any damage to any property and recipient assumes all such risks.