

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & 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 multifunctional additives
Manufacturer O. F. Zurn Company
2736 North Broad Street
Philadelphia, PA 19132
Information Phone # ... (215) 229-5268
Emergency Phone # (215) 229-5268
Preparer John Ballinger
Revision Date 1/1/95

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

All 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.*

Hydrotreated residual oils

CAS number 64742-57-0 50-70 Percent
OSHA PEL = 5 mg/m³ (mist)
ACGIH TLV = 5 mg/m³ (mist)
STEL = 10 mg/m³ (mist)

Solvent refined heavy paraffinic distillate

CAS number 64741-88-4 20-35 Percent
OSHA Pel = 5 mg/m³ (mist)
ACGIH TLV = 5 mg/m³ (mist)
STEL = 10 mg/m³ (mist)

Proprietary SIP gear oil additive

CAS number Mixture 1-5 Percent
OSHA PEL = 5 mg/m³ (mist)
ACGIH TLV = 5 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 ambient conditions is normally not a problem. If material 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

Preexisting Medical Conditions Aggravated by Exposure

Skin disorders.

SECTION 4 FIRST AID MEASURES

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.

**SECTION 5
FIRE FIGHTING MEASURES**

Flash point (minimum)
390°F

Method used
COC

Flammable limits in air (% volume)
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.

"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.

HMIS Classification

Health	0
Flammability	1
Reactivity	0
Personal Protection Index	C
Specific Hazard	None listed.

**SECTION 6
ACCIDENTAL RELEASE MEASURES**

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.

**SECTION 7
HANDLING AND STORAGE**

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 reuse. Remove contaminated shoes and thoroughly clean before reuse; 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.

**SECTION 8
EXPOSURE CONTROL/PERSONAL PROTECTION**

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.

Personal Protective Equipment — 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.

Personal Protective Equipment — 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 are acceptable to 10 times the exposure limit. Full face air purifying respirator with dust/mist filters or HEPA filter cartridges are 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, and polyurethane. Safety shower and eye wash availability recommended.

**SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES**

Boiling point (initial)	n/a
Specific gravity (60°F)	0.89
Density	7.40 lb/gl
Vapor pressure (20°F)	<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
Odor	Slight
Odor threshold (PPM)	Not determined

**SECTION 10
STABILITY AND REACTIVITY**

Stability	Stable
Conditions to avoid	Sources of ignition
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products ...	Combustion will product fumes, smoke, carbon monoxide, and other asphyxiants.
Polymerization	Will not occur

**SECTION 11
TOXICOLOGICAL INFORMATION**

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.

**SECTION 12
ECOLOGICAL INFORMATION**

Aquatic Toxicity No data available.

**SECTION 13
DISPOSAL CONSIDERATIONS**

Waste Disposal Method

Follow federal, state, and local 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.

Special Shipping Information

None.

**SECTION 14
TRANSPORTATION INFORMATION**

DOT

Proper shipping name ..	Petroleum lubricating oil
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

**SECTION 15
REGULATORY INFORMATION**

EPA/ITSCA 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.

**SECTION 16
OTHER INFORMATION**

WHMIS Classification

Not Controlled

Disclaimer

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