

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : EP LUBRICANT

Health Hazard : Flammability : Reactivity : Other :
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

Nominal Composition	CAS Number
Vegetable oil and fat	

SECTION 1 PHYSICAL DATA

Physical state : liquid
Odor and appearance : brown
Odor threshold : not available
Specific gravity (water=1) : 0.85-0.95
Vapor pressure (mm hg, 20°C) : not available
Vapor density (air=1) : not available
Evaporation rate : not available
Boiling point : not available
Freeze/melting point : not available
pH : not available
Water/oil distribution coefficient : not available
Bulk density : not available
% volatiles by volume : not available
Solubility in water : not soluble
Molecular formula : not available
Molecular weight : not available

SECTION 2 FIRE AND EXPLOSION HAZARD DATA

Conditions of flammability : flammable liquid
Means of extinction : carbon dioxide and dry chemical extinguishers. Use water spray to disperse vapours.
Flash point : >80°C
Auto-ignition temperature : not available
Upper flammable limit : not available
Lower flammable limit : not available
Hazardous combustible products : nitrogen oxides
Special fire fighting procedures : wear niosh-approved self-contained breathing apparatus and protective clothing.

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Explosion hazards : vapours are heavier than air and may "travel" to source of ignition causing fire and explosion.

SECTION 3 REACTIVITY HAZARDS

Stability : steady
Incompatibility : impossible
Hazardous decomposition : impossible
Hazardous polymerization : impossible

SECTION 4 FIRST AID PROCEDURES

Inhalation : remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin contact / absorption : remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye contact : flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.

Ingestion : do not induce vomiting. Drink large quantities of water or milk to dilute the chemical. Seek immediate medical attention.

Additional information : not available

SECTION 5 HANDLING PRECAUTIONS

Handling procedures : use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage requirements : store in cool area above freezing point away from incompatibles

SECTION 6 SPILL AND DISPOSAL PROCEDURE

Waste disposal : dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

SECTION 7 TOXICOLOGY (ROUTES OF EXPOSURE)

Inhalation : remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin contact / absorption : remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye contact : flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.

Ingestion : do not induce vomiting. Drink large quantities of water or milk to dilute the chemical. Seek immediate medical attention.

Additional information : not available

SECTION 8 SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Special precautions : no applicable

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Physical hazard : impossible

Handling and storage precautions : stored in dry, cool, the well ventilated seal environment. prevents the physical damage of the packing, because the product after using abandons in the packing will have few residuum unavoidably, thus the material, the vessel and the sack after using are harm us, please take preventive measures refer to the related police to this product.

Packaging requirements : ordinary packing

Additional information : no applicable

SECTION 9 STABILITY AND REACTIVITY

Stability : stable

Aggregation : no applicable

Hazardous decomposition products : impossible

Materials to avoid: : avoids with non-tolerant coexistence

Incompatibilities : no applicable

SECTION 10 ECOLOGICAL INFORMATION

Fish toxicity : not available

Biodegradability : not available

Environmental effects : not available

SECTION 11 TOXICOLOGICAL INFORMATION

Irritancy : Severe irritant to the eyes.

Sensitization : Not available

Chronic/acute effects : No other adverse effects expected other than those mentioned above in

Synergistic materials : Not available

Animal toxicity data : Ld50(oral, rat): 156mg/kg (cyclohexylamine)
Ld50(dermal, rat): 320mg/kg (cyclohexylamine)
Ld50(oral, rat): 1050mg/kg (morpholine)
Ld50(inhalation, rat): 4000ppm (morpholine)

Carcinogenicity : Not available

Reproductive toxicity : Not available

Teratogenicity : Not available

Mutagenicity : Not available

SECTION 12 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this

material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 13 TRANSPORTATION INFORMATION

DOT transportation code : none

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DOT transportation name : none
IMO transportation code : none
IMO transportation name : none
IATA transportation code : none
IATA transportation name : none
US DOT : none
Domestic transportation : land carriage
product name : PF-EP101
Hazard rate : no
Un hazard product number : no
Packing sort : industrial
Product packing : 55 gal/dr
International transportation : sea transportation

SECTION 14 REGULATORY INFORMATION

INGREDIENT	SCA	EC	China	DSL	NDSL		
	yes	yes	yes	yes	no		
INTERATIONAL REGULATION							
INGREDIENT	SARA302		SARA313		CERCLA	RCRA	TSCA
	no	no	no	no	no	no	no

SECTION 15 OTHER INFORMATION

Fatalness : may irritate eye
Precaution : may cause injure to
Emergency treatment : water used first, otherwise see the doctor
Application area : oilfield
