

Material Safety Data Sheet

SECTION 1 - IDENTIFICATION OF SUBSTANCE AND COMPANY

Product Name: EP 2 Oil
Chemical Name: Petroleum Hydrocarbons and Additives

Supplier:	Enviroblend, Inc.	Phone: 615-382-8215	HMIS	
	P.O. Box 329	Fax: 615-382-8216	Health	1
	Springfield, TN 37172		Flammability	1
			Reactivity	0
			Personal Protection	B

Emergency Phone Numbers: Enviroblend, Inc. 615-382-8215
CHEMTREC (Transportation) 800-424-9300

SECTION 2 - INFORMATION ON INGREDIENTS

Hazardous and regulated components

Component	CAS #	%	ACGIH TWA	ACGIH STEL	Carcinogen	OSHA PEL	R.Q. lbs.
Severely refined mineral oils	Mixture	-	5mg/M ³	10mg/M ³	NO	5mg/M ³	N/A
Molybdenum di(2-ethylhexyl) phosphorodithioate	72030-25-2	<0.7	10mg/m ³	—	NO	15mg/m ³	N/A
Zinc alkyl dithiophosphate	68649-42-3	1.4	—	—	—	—	N/A

All base oils, including additive carriers, contain <3.0% DMSO extractable material.

SECTION 3 - HAZARDS IDENTIFICATION

Effects of Overexposure:

Skin: ----- Avoid prolonged skin contact. This product contains materials that may cause skin irritation. Prolonged or repeated contact may result in dermatitis.

Eyes: ----- Direct contact may cause irritation, redness, tearing and blurred vision.

Inhalation: -- Overexposure by inhalation of hot or misted material may cause nonspecific discomfort, such as nausea, headache, or weakness. Caution should be taken to prevent misting of this product without proper respiratory protection.

Ingestion: ---- Do not ingest. Product is expected to be relatively non-toxic unless lung aspiration occurs. Aspiration is not expected with this material due to heavy viscosity. Should aspiration occur, may lead to chemical pneumonia which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and a

bluish discoloration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. This product has laxative properties and may result in abdominal cramps and diarrhea.

SECTION 4 - FIRST AID MEASURES

- Skin: -----** Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately. Wash contaminated clothing before reuse.
- Eyes: -----** Immediately flush with plenty of water for at least 15 minutes; ensure water flushing of entire surface of eye and lid. Obtain medical attention if irritation persists. If material is hot, treat for thermal burns and obtain immediate medical attention.
- Inhalation: --** Move to fresh air, provide oxygen if breathing is difficult. Obtain medical attention.
- Ingestion: ----** DO NOT induce vomiting. If spontaneous vomiting occurs keep head below hips to prevent aspiration and monitor for breathing difficulty. Gastric lavage should be performed only by qualified medical personnel. Keep affected person warm and at rest. Seek immediate medical attention.
- Physicians** Not applicable

Note:

SECTION 5 - EXPLOSION AND FIRE FIGHTING MEASURES

Flash Point	Method Used	Flammable	LEL	UEL
356° F	ASTM D 92	Limits	N/A	N/A

Extinguishing media:

CO₂, Dry Chemical, do not use water stream. Product will float and can be reignited on water surface.

Special Fire Fighting Procedures:

Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak.

Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.

Wear MSHA/NIOSH approved self-contained breathing apparatus. Use water spray to cool fire-exposed containers.

Unusual and Explosion Hazards:

Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve

on burning. Heavy flammable vapors may settle along ground level and low spots to create an invisible fire hazard. The vapors may extend to sources of ignition and flash back. Fires involving this product may release oxides of carbon, nitrogen, sulfur and phosphorus; reactive hydrocarbons and irritating vapors.

SECTION 6 - ACCIDENTAL RELEASE / SPILL PROCEDURES

Steps to be taken in case material is released or spilled:

Immediately turn off or isolate any source of ignition. Evacuate area and ventilate. Use appropriate protective equipment. Stop leak. Dike to contain spill, cover with inert absorbent material, sweep up, and place in suitable container. Keep spills out of municipal sewers and open bodies of water. Large spills, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed. Store in cool, dry location away from heat, sparks, open flame, or oxidizing materials. Empty containers retain product residue which may exhibit hazards of material – do not pressurize, cut, glaze, weld, or use for any other purposes. Store containers away from heat, sparks, open flame, or oxidizing materials.

Any use of this product in elevated temperature processes should be evaluated to establish and maintain safe operating procedures.

SECTION 8 - PERSONAL PROTECTION

Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.

Respiratory Protection:

Use a NIOSH approved respirator when exposure to vapors of mists is anticipated.

Ventilation:

Local Exhaust is recommended when handling generated mists

Protective Gloves:

Impervious (Nitrile)

Eye Protection:

Splash Goggles (ANSI Z87.1, 1968)

Other Protective Equipment:

Wear an impervious apron and have eyewash facility close by.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:

N/A

pH:

N/A

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Specific Gravity:	0.89 @ 60 F	Solubility in Water:	Negligible
Vapor Pressure:	27.6 @ 60 F	% Solid by Weight:	N/A
Vapor Density:	>1 (air = 1)	Material Is:	Liquid
% Volatile by Volume:	Negligible	Freezing Point:	5° F
Evaporation Rate:	N/A	Pour Point:	-20° F
Appearance and Odor:	Dark green fluid, mild oily odor		

SECTION 10 - STABILITY AND REACTIVITY

Stability	Stable
Conditions to avoid:	Heat, open flame, and Oxidizing materials.
Hazardous Polymerization:	Will not occur
Conditions to avoid:	None
Incompatible materials:	Strong acids, and Oxidizers.
Hazardous decomposition Products:	None under normal use conditions. Carbon dioxide, carbon monoxide, Oxides of carbon, nitrogen, sulfur and phosphorus; reactive hydrocarbons and irritating vapors.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral LD ₅₀ (rat): -----	Not determined
Dermal LD ₅₀ (rabbit):	Not determined
-	
Skin Irritation (rabbit):	No information
Eye Irritation (rabbit):	No information

Local effects:

Expected to be a low hazard for usual industrial handling or commercial use by trained personnel.

SECTION 12 - ECOLOGICAL INFORMATION

This product does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances. This product may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

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The product in the as received condition is not a hazardous waste by RCRA criteria (40 CFR 261).

Material should be disposed of in accordance to current local and national regulations. RCRA: It is the responsibility of the user to determine at time of disposal whether a product or solution meets RCRA criteria for hazardous waste, as mixing, use, contamination, or soils may render the resultant mixture hazardous.

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Petroleum products, n.o.s. (bulk quantities)
Hazard Class: Combustible
Packing Group: II
UN / NA Number: UN 1268
D.O.T. Hazardous Substances: None
Transport Label Required: None

SECTION 15 - REGULATORY INFORMATION

Under section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spill or discharge that produce a visible sheen or film on surface of water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802. This product contains zinc, a Clean Water Act Priority Pollutant.

The components of this product are listed on the following

US TSCA

Toxic Substances Control Act: All components of this material are listed.

SARA Title III No known components under Section 302/304 Section 311/312 hazard categorizations. None Section 313 Toxic chemicals:

Component	CAS #	%	TPQ (Lbs)	RQ (Lbs)	S 313	RCRA	TSCA 12B
Zinc dialkyl dithiophosphate	68649-42-3	1.4			X		
Zinc, elemental	7440-42-3	0.13			X		
Chlorine, elemental	7782-50-5	0.01			X		

Special State requirements or lists:

Zinc Michigan 293
Chlorine Michigan 293
Zinc dialkyl dithiophosphate California – Right to Know
Illinois Right to Know
Louisiana Right to Know

Michigan 293
New Jersey Right to Know
Pennsylvania Right to know

SECTION 16 - OTHER INFORMATION

NOTICE

As the conditions or methods of use are beyond our control, Enviroblend, Inc. does not assume any responsibility and expressly disclaims any liability for any use of this material. Information contained herein has been obtained from the manufacturer and / or recognized technical sources. The information is believed to be true and accurate, but all statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user.