

WARREN OIL COMPANY, INC.

MATERIAL SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: EMPIRE 30

Manufacturer: Warren Oil Company, Inc.
Hwy 301 North
PO Box 1507
Dunn, NC 28334

24 Hour Emergency: (910) 892-6456
CHEMTREC: (800) 424-9300

Section 2: Composition/Information on Ingredients

Chemical Names and Synonyms: Pet. Hydrocarbons and Additives

Ingredients Considered Hazardous to Health: This product is not formulated to contain ingredients which have exposure limits established by US agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparation Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 8 for exposure limits (if applicable).

Section 3: Hazards Identification

US OSHA Hazard Communication Standard: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

Effects of Overexposure: No significant effects expected.

Emergency Response Data: Clear and Bright Liquid. DOT Erg No. - NA

Section 4: First Aid Measures

Eye Contact: Flush thoroughly with water. If irritation occurs, call a physician.

Skin Contact: Wash contact areas with soap and water.

Inhalation: Not expected to be a problem.

Ingestion: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

Section 5: Fire-Fighting Measure

Extinguishing Media: Carbon dioxide, foam, dry chemical and water fog.

Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Special Protective Equipment: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

Unusual Fire and Explosion: None. Flash Point C(F): >148 (298) (ASTM D-92) Flammable Limits - LEL 0.6%, UEL: 7.0%

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0
Hazardous Decomposition Product: Carbon monoxide

Section 6: Accidental Release Measures

Notification Procedures: Report spills as required to appropriate authorities. US Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of road spill notify CHEMTREC (800) 424-9300.

Procedures if Material is Released or Spilled: Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

Environmental Precautions: Prevent spills from entering storm sewers or drains and contact with soil.

Personal Precautions: See Section 8

Section 7: Handling and Storage

Handling: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

Storage: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

Section 8: Exposure Controls/Personal Protection

Ventilation: No special requirements under ordinary conditions of use and with adequate ventilation.

Respiratory Protection: No special requirements under ordinary conditions of use and with adequate ventilation.

Eye Protection: Normal industrial eye protection practices should be employed.

Skin Protection: No special equipment required. However, good personal hygiene practices should always be followed.

Exposure Limits: This product does not contain any components which have recognized exposure limits.

Threshold Limit Value: 5.00 mg/m³

Section 9: Physical and Chemical Properties

Typical physical properties are given below. Consult Product Data Sheet for specific details.

Appearance: Liquid

Color: Clear and Bright

Odor: Mild

Odor Threshold- ppm: NE

pH: NA

Boiling Point C(F): >316 (600)

Melting Point C(F): NA

Flash Point C(F): > 148 (298) (ASTM D-92)

Flammability: NE

Auto Flammability: NA

Explosive Properties: NA

Oxidizing Properties: NA

Vapor Pressure-mmHg 20 C: <0.1

Vapor Density: >2.0

Evaporation Rate: NE

Relative Density, 15/4 C: 0.887

Solubility in Water: Negligible

Partition Coefficient: NE

Viscosity at 40 C, cSt: >20.0
Viscosity at 100 C, cSt: >4.0
Pour Point C(F): -6(21)
Freezing Point C(F): NE
Volatile Organic Compound: Exempt in US
NA=Not Applicable, NE=Not Establish D=Decomposes

Section 10: Stability and Reactivity

Stability (Thermal, Light, Etc.): Stable
Conditions to Avoid: Extreme heat
Incompatibility (Materials to Avoid): Strong oxidizers
Hazardous Decomposition Products: Carbon monoxide.
Hazardous Polymerization: Will not occur

Section 11: Toxicological Data

---Acute Toxicology---

Oral Toxicity (Rats): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
Dermal Toxicity (Rabbits): Practically non-toxic (LD50: greater than 2000mg/kg). ---Based on testing of similar products and/or the components.
Inhalation Toxicity (Rats): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.
Eye Irritation (Rabbits): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
Skin Irritation (Rabbits): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

Section 12: Ecological Information

Environmental Fate and Effects: Not established.

Section 13: Disposal Considerations

Waste Disposal: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resources Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Section 14: Transport Information

USA DOT: Not regulated by USA DOT.
IMO: Not regulated by IMO.
IATA: Not regulated by IATA.

Section 15: Regulatory Information

Governmental Inventory Status: All components comply with TSCA, and EINECS/ELINCS.

US Superfund amendments and Reauthorization Act (SARA) Title III: This product contains no “Extremely Hazardous Substances”.

SARA (311/312) Reportable Hazard Categories: None

This product contains no chemicals reportable under SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
Zinc (Elemental Analysis) (0.14%)	7440-66-6	22
Zinc Diakyl Dithiophosphate (0.50%)	68457-79-4	22

--- Regulatory Lists Search ---

1 = ACGIH ALL 6 = IARC 1 11 = TSCA 4 17 = CA P65 22 = MI 293
2 = ACGIH A1 7 = IARC 2A 12 = TSCA 5a2 18 = CA RTK 23 = MN RTK
3 = ACGIH A2 8 = IARC 2B 13 = TSCA 5e 19 = FL RTK 24 = NJ RTK
4 = NTP CARC 9 = OSHA CARC 14 = TSCA 6 20 = IL RTK 25 = PA RTK
5 = NTP SUS 10 = OSHA Z 15 = TSCA 12b 21 = LA RTK 26 = RI RTK

Code key: CARC = Carcinogen; SUS = Suspected Carcinogen

Section 16: Other Information

Use: Base stock extender

This product is not formulated to contain PCBS.

Ingredient Description	Percent	CAS Number
Severe Treat Min. Oils & Additives	95-100	
Zinc Dialkyl Dithiophosphate	<1	684457-79-4

*Prepared by Mobil Oil Corporation Environmental Health and Safety Department, Princeton, NJ.
This document provided by Warren Oil Company, Inc., Dunn, NC.*