

MATERIAL SAFETY DATA SHEETS

Trade Name: **FORM OIL II**

Commodity Code: CLVFO

Synonyms: Concrete Form Oil

CAS NO.: Mixture
(Refer to Section 1.0)

Date: June 1, 2004

Technical Contact: Coast Oil Company
Safety Director: (408)251-0811
Chemtrec Emergency: (800)424-9300

MATERIAL HAZARD EVALUATION

(Per OSHA Hazard Communication
Standard [29 CFR Part 1910.1200]) (OHCS)

Health: Final Product Hazardous.

Precautionary Statement: Avoid prolonged skin and contact.

HMIS Rating¹: Health 1 Flammability 3 Reactivity 0

1.0 Generic Composition/Components

<u>Components</u>	<u>CAS #</u>	<u>%</u>	<u>Hazard Data</u>
Solvent Dewaxed (Light Paraffin Petroleum Distillate)	64742-56-9	65- 79.99 95-76	*Eye: Irritating
Tall Oil (Fatty Acid)	61790-12-3	4-6	*Skin: Irritant *Inhl: See below

* Product is hazardous according to OSHA

Oil Mist if Generated (5) **MG/M3 TWA-OSHA**
(5) **MG/M3 TWA-ACGIH**

Physical Hazard Classification (Per 29 CFR Part 1910.1200)

2.0 Physical Data

Appearance and Odor: Light Pale.

Order:

Boiling Point: Not determined

Specific Gravity: .8912

Vapor Pressure: Not determined

¹ Hazard Rating: Least - 0, Slight - 1, Moderate - 2, High - 3, Extreme - 4

3.0 Fire and Explosion Data

COC °C	154
NFPA Rating ⁴	Health: 1 Flammability: 1 Reactivity: 0
Flammable Limits (% by volume in air)	N/C
Extinguishing Media	Carbon dioxide, foam, dry chemical, water spray
Special Fire Fighting Procedure	positive breather apparatus
Unusual Fire or Explosion Hazard	

4.0 Reactivity Data

Stability:	Stable
Conditions Contributing to Instability:	Heat
Incompatibility:	Strong Oxidants
Hazardous Decomposition Products:	Thermal decomposition in the presence of air may yield major amounts of oxides of carbon Irritating aldehydes and ketone
Conditions Contributing to Hazardous Polymerization:	Does not occur

Unusual Fire and Explosion Hazards: Move container from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks and drums--Heated containers may rupture, explode or be thrown into the air. Heated vapors may be sensitive to static discharge, resulting in fire or explosion.

Fire Fighting Procedures: Withdraw immediately in case of rising sound from venting safety device or discoloration of tank due to fire. Keep storage containers cool with water spray. Use self-contained breathing apparatus (SCBA).

NFPA Rating (0=least, 4=extreme): Health =0 Fire = 1 Reactivity = 0

5.0 Spill or Leak Procedures

Procedures if Material is Spilled:

- Remove sources of heat or ignition, provide adequate ventilation, contain leak for possible re-refining, and avoid breathing vapor.
- **Small Spills:** Absorb with suitable material such as rags, clay absorbent, or sand. Place into containers for later removal.
- **Large Spills:** Contain spill in earthen dikes for later recovery. Report spills as required to appropriate authorities; prevent entry into sewers and waterways.

Waste Disposal:

- It is the responsibility of the user to determine if the material is hazardous waste at the time of disposal.
- Check before disposing to be sure you are in compliance with all applicable laws and regulations

Protective Measures during Repair and Maintenance of Contaminated Equipment:

- Wash exposed skin thoroughly with soap and water.
- Avoid prolonged contact with used oil.
- Remove soiled clothing.
- Use oil impervious gloves if frequent or prolonged contact is expected.

6.0 Health Hazard Data

Toxicity Summary: Practically non-toxic, except for minor allergenic potential.

Major Route(s) of Entry: Inhalation of incidental mists or vapors.

Acute Exposure Symptoms

Inhalation: Low risk of inhalation at ambient temperatures. Mists or fumes may cause drowsiness, dizziness, headache, nausea, or lung irritation or chemical pneumonitis. High concentrations of vapor or mist may be irritating to the respiratory tract. Including nose and throat may cause difficulty breathing. Lethal not determined.

Dermal Contact: Transient, slight irritant, possible mild allergen. Prolonged or repeated contact may cause redness, burning and dermatitis. Contact with hot material may cause thermal burns. Irritation index draize believed to be >16.00 to 2500. (Rabbit) slightly irritating.

Eye Contact: May be mildly irritating. Direct contact may cause burning, tearing and redness. Draize believed to be < 15,000/210. (Rabbit) no appreciable effort.

Ingestion: Low toxicity. On ingestion of large quantities, slight GI discomfort, diarrhea, and headache may occur. Aspiration into the lungs during swallowing or vomiting may cause mild to severe pulmonary injury. LP50 - Believed to be >500 g/kg. (Rabbit) practically non-toxic.

Injection: Subcutaneous or intramuscular injection may cause irritation, arrhythmia, edema.

Chronic Exposure

Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis. High oil mist concentrations may lead to oil pneumonia.

Other Special Effects

Middle distillates have caused skin irritation and skin cancer in laboratory animals when repeatedly applied and left in place between applications. Studies to further evaluate the carcinogenic potential of middle distillates are currently underway. Kidney damage has also been observed in laboratory animals exposed to middle distillates.

Medical Conditions Aggravated by Exposure

Contact with skin may aggravate pre-existing dermatitis.

First Aid and Emergency Procedures for Acute Effect

Inhalation: Remove to fresh air. Respiratory support if necessary should be administered by qualified personnel. Do not leave victim unattended. Seek medical attention if necessary.

Dermal: Do not use gasolines, thinners or solvents to remove product from skin. Wipe material from skin and remove contaminated clothing. Wash with soap and water. Remove contaminated clothing. Get medical attention if skin irritation persists or contact has been prolonged.

Eyes: Flush with water for 15 minutes lifting upper and lower lids occasionally. See physician if any complications arise.

Ingestion: Do not induce vomiting, because material can enter the lungs and cause severe damage. Drink 16 ounces of water and seek immediate medical attention. Do not leave victim unattended. If vomiting occurs, or if comatose or lethargic, seek immediate medical attention.

Injection: Subcutaneous injection is medical emergency. Seek medical aid immediately.

7.0 Special Protection Information

Ventilation Requirements: Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain components below mandated standards, as evaluated by designated personnel. Keep away from heat, sparks and flames.

Permitted Threshold Air Concentrations:

Petroleum Hydrocarbon Mist: 5 MG / M3 TWA - OSHA (Mineral oil mist)
5 MG / M3 TWA - ACGIH (Mineral oil mist)
CAL OSHA 5MGM

Specific Personal Protective Equipment:

Respiratory: Normally none required. If high vapor or mist concentrations expected - use respirator approved for organic vapors and mists.

Eyes: Avoid contact with eyes. Safety goggles or chemical splash goggles if splashing is anticipated. Contact lenses should not be worn.

Dermal: Oil impervious gloves if frequent or prolonged contact is expected. Barrier creams that are specific for oil based materials are recommended when gloves are impractical.

Other Clothing or Equipment: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse. It is suggested that a source of clean water be available in work area for flushing eyes and skin.

8.0 Transportation and Special Precautions

Storage: Do not apply high heat or flame to container. Keep separate from strong oxidizing agents. Keep container tightly closed.

Caution: Empty containers may contain product residue which could include flammable or explosive vapors.

Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

DOT Information

DOT/UN Shipping Name: Low Viscosity Form Oil
DOT Hazard Class: 3
DOT/UN Hazard Identification Number: 1223 Hazard Case 3
DOT Shipping Container Restrictions: None
DOT Placard: UN 1223 Pack Group III
Label Required: Kerosene - Flammable Liquid

9.0 Environmental Data

Product Name: Coast Low Viscosity Form Oil
Commodity Code: CLVFO

SARA TITLE III

Section 313 - Toxic Chemicals

Product does not contain toxic chemicals subject to the reporting requirements of section 313 of Title III or the Super fundament and Re-authorization Act of 1986 and CFR Part 372.

Section 311 - Hazard Categories

No Fire Hazard
No Sudden Release of Pressure Hazard Yes Immediate (Acute) health effects
No Chronic (Delayed Health Hazard) No Reactive Hazard

Clean Water Act

Under Section 311 (b) of the Clean Water Act, discharges of crude oil and petroleum products in any kind or form to surface waters must be immediately reported to the National Response Center: 800-424-8802.

California Prop 65

This product may contain chemicals known to the State of California to cause cancer (See also the Health Hazard Information Section).

The following detectable components of this product are substances or belong to classes of substances, known to the State of California to cause cancer and or reproductive toxicity.

10.0 Labeling DOT

Petroleum Lubricating Oil

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