

Material Safety Data Sheet

Effective Date: 05-JUN-2000  
Product: CROP OIL CONCENTRATE

I. IDENTIFICATION

Chemical Name: Paraffin Based Mineral Oil  
Chemical Family: Oil Surfactant  
Formula: Not applicable, formulated mixture.  
Synonyms: 85/15 Spray Oil Concentrate  
CAS Number: 64742-46-7 (active ingredient)  
EPA Number: None Required

II. PHYSICAL DATA

Boiling Point: 625-830 Degrees F.  
Freezing Point: <0 Degrees F.  
Spec Gravity: 0.869 gms/cc  
Vapor Pressure: .0001 mm/HG  
Vapor Density: 10+  
Solubility: Dispersible  
Volatiles: <2.5%  
Evaporation: 1000X  
Melting Point: Not applicable  
Appearance: Light yellow liquid with mineral oil odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Paraffin Based Petroleum Oil, Polyoxyethylated Polyol Fatty Acid Ester, and Polyol Fatty Acid Ester		100.00	5 mg/m3	Mild skin & eye irritant

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 Degrees F.  
Autoignition Temp: 650 Degrees F. (est.)  
Flammable Limit: Not established  
Extinguishing Media: Water spray, foam, dry chemical or carbon dioxide.  
Special Fire Fight Proc: Wear positive pressure self-contained breathing apparatus and full protective clothing. Avoid getting water from firefighting into domestic or irrigation water supplies.  
Fire and Expl Hazard: Containers may rupture violently if overheated. After fire is controlled, do not handle containers until they have returned to

Material Safety Data Sheet

Effective Date: 05-JUN-2000  
Product: CROP OIL CONCENTRATE

-----  
ambient temperature.  
-----

-----  
V. HEALTH HAZARD  
-----

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE  
-----

Swallowing: Practically non-toxic. The Acute Oral LD50 (rat) is > 5,000 mg/kg.  
Skin Absorption: This product is judged to have an Acute Dermal LD50 (rabbit) > 2,000 mg/kg.  
Inhalation: Vapor pressure is very low. Vapor inhalation under ambient conditions is not normally a problem.  
Skin contact: May cause irritation to skin after repeated exposure.  
Eye Contact: Contact may cause eye irritation.  
Chronic Effects: Prolonged or repeated skin contact with this product tends to remove skin oils, possible leading to irritation and dermatitis.  
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES  
-----

Swallowing: If ingested, DO NOT INDUCE VOMITING! Call a physician immediately.  
Skin: Wash skin thoroughly with soap and water. If irritation develops, consult a physician. Launder clothing before reuse.  
Inhalation: Move to fresh air if irritation is noted. Consult a physician if irritation persists.  
Eyes: Flush eyes with water for at least 15 minutes, holding eyelids open. If irritation develops, consult a physician.  
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient. Product has a low order of acute and dermal toxicity but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury.

-----  
VI. REACTIVITY  
-----

Stability: Stable  
Conditions to Avoid: None currently known.

Material Safety Data Sheet

Effective Date: 05-JUN-2000  
Product: CROP OIL CONCENTRATE

---

Polymerization: Will Not Occur  
Conditions to Avoid: None currently known.  
Incompatibility material: Strong oxidizing agents, such as hydrogen peroxide, bromine, chlorine, and strong acids.  
Hazardous Combustion: May produce oxides of carbon under fire conditions.

---

VII. SPILL OR LEAK PROCEDURES

---

Spill or Leak Proc: Recover free product. Add sand, earth, or other suitable absorbent to spill area. Keep material out of sewers and waterways by diking or impounding area. Advise authorities if product has entered or may enter sewers or waterways.  
Waste Disposal Method: This material must be disposed of according to Federal, State, or Local procedures under the Resource Conservation and Recovery Act.

---

VIII. SPECIAL PROTECTION INFORMATION

---

Respiration: If spray is present, use NIOSH/MSHA approved respiratory protection appropriate for indicated components.  
Ventilation: Local exhaust sufficient.  
Gloves: Impervious  
Eyes: Chemical workers' goggles.  
Other: Eyewash station, impervious apron, and footwear.

---

IX. SPECIAL PRECAUTIONS

---

Special precaution: Keep out of reach of children. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, or ponds. Keep containers closed when not in use. Do not store near heat, sparks, flames, or strong oxidants.  
Other precaution: This product may be classified as an oil under Section 311 of the Clean Water Act and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center at 1-800-424-8802.

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

09-AUG-2002 10:18:18  
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 05-JUN-2000  
Product: CROP OIL CONCENTRATE

X. SHIPPING INFORMATION

Shipping name: Not regulated Domestically by DOT.  
Hazard Class: None  
Identification No: None  
Labels Required: None required  
Placarding: None  
Freight Class: Adjuvant, Spreader or Sticker, Liquid, NOIBN  
(NMFC Item 4610, Class 60)

Chemical Name Equivalent R.Q.

Not applicable Not applicable

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1 Fire: 1 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y Delayed (Chronic) Health: N  
Sudden Release of pressure: N Fire: N  
Reactive: N

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
Helena Chemical Company believes that the data contained herein is factual.  
This data is not to be taken as a warranty or representation of legal  
responsibility. It is offered solely for your consideration, investigation  
and verification.