

# MATERIAL SAFETY DATA SHEET

# FOREST CROP OIL

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-800-301-7976  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** FOREST CROP OIL – OIL CARRIER AND ADJUVANT  
**CHEMICAL NAME:** Solvent-refined light paraffinic distillates  
**CHEMICAL FAMILY:** Petroleum Oil  
**WA REG. NO.:** 34704-50008  
**MSDS Number:** 50008-07-LPI

**MSDS Revisions:** Section 16

**Date of Issue:** 04/20/07

**Supersedes:** 02/07/05

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION –** Avoid inhalation of spray mist. Harmful if swallowed. Do not induce vomiting. Call a physician immediately. May cause eye irritation.

This product is a colorless oily liquid with no odor. Primary routes of entry are Inhalation, eye contact and skin contact.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV/Units</u>
Petroleum Oil	98.00	Mixture	not listed
Emulsifier and inert ingredients	2.00		

## 4. FIRST AID MEASURES

**If swallowed:** Do not induce vomiting. Call a physician immediately.  
**If in eyes:** Wash thoroughly with water and if irritation persists, consult a physician.  
**If inhaled:** Remove victim to fresh air. Apply respirator if indicated.  
**If on skin:** Remove contaminated clothing and wash affected area with soap and water.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** 284°F/140°C (TCC)  
**FLAMMABLE LIMITS (LFL & UFL):** Not established  
**EXTINGUISHING MEDIA:** Can be made to burn; ease of burning is directly related to increased temperature, use dry chemical, carbon dioxide, foam, water spray or fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** May include but are not limited to oxides of carbon, irritating vapors or asphyxiants.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and full protective gear.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** If water is used to fight fire or cool containers, contain run-off, using dikes to prevent contamination of water supplies.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Contain the spill (wear the proper PPE, see section 8 for PPE) by absorbing spilled liquid with clay or other absorbent material; scoop or sweep up material and place in container. Decontaminate area by washing with soapy water solution and absorbing the water with absorbent material. Check local, state and federal regulations for proper disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid inhalation and skin contact when handling used oil. Keep away from ignition sources. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.  
**STORAGE:** Keep away from children and animals. Store in original container only. Store in a cool dry place and avoid excessive heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute materials in food or drink containers. Do not contaminate Pesticides, fertilizers, water, food or feed by storage or disposal. Keep water out of this product in storage or oil may not emulsify properly.

**Personal Protective Equipment (PPE): Applicators and handlers must wear:** coveralls over long sleeved shirt and long pants, shoes plus socks, rubber or chemical impervious gloves, and protective eyewear. Respiratory protection is not normally required but if vapors exceed acceptable level, wear a MSHS/NIOSH approved respirator to protect against vapors. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** Respiratory protection is not normally required but if vapors exceed acceptable level, wear a MSHS/NIOSH approved respirator to protect against vapors.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes plus socks. Wear rubber or chemical-resistant gloves.

	<b>OSHA PEL 8 hr TWA</b>	<b>ACGIH TLV-TWA</b>
Oil Mists	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b> Clear, colorless oily liquid with no odor	<b>SOLUBILITY:</b> Emulsifies
<b>SPECIFIC GRAVITY (Water = 1):</b> 0.85 g/ml	<b>pH:</b> Not established
<b>VAPOR PRESSURE:</b> <0.00001 (torr)	<b>BULK DENSITY:</b> 7.09 lbs/gallon
<b>PERCENT VOLATILE (by volume):</b> Not established	<b>BOILING POINT:</b> >200°F/>93.4°C
<b>Note:</b> These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.	<b>EVAPORATION RATE (Butyl Acetate = 1):</b> < 1

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable  
**INCOMPATIBILITY:** Strong oxidizers.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Incomplete combustion may lead to formation of oxides of carbon, irritating vapors and/or other asphyxiants.  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** Excessive heat.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral LD<sub>50</sub> (rat):</b> >5000 mg/kg	<b>Acute Dermal LD<sub>50</sub> (rabbit):</b> >2000 mg/kg
<b>Eye Irritation (rabbit):</b> May cause irritation to the eyes	<b>Skin Irritation (rabbit):</b> May cause reddening to rash or dermatitis.
<b>Acute Inhalation LC<sub>50</sub> (rat):</b> Not established	<b>Skin Sensitization (guinea pig):</b> Not established
<b>Carcinogenic Potential:</b> None listed in OSHA, NTP, IARC or ACGIH	

**12. ECOLOGICAL INFORMATION**

Do not apply directly to water, or to areas where surface water is present or into inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters. Not for aquatic use.  
 Do not pour down sewers or drains.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse container. **Metal:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers. **Plastic:** Triple rinse (or equivalent) adding rinse water to spray tank, then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT.  
**U.S. Surface Freight Classification:** ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610, CLASS 60)

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA	HMIS	
	1 Health	0 Least	1 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

# MATERIAL SAFETY DATA SHEET

# FOREST CROP OIL

**SARA Hazard Notification/Reporting**

**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
Delayed N Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed

**SARA, Title III, Section 313:** Not listed

**RCRA Waste Code:** Not listed

**CA Proposition 65:** Not listed

---

## 16. OTHER

---

**MSDS STATUS:** Section 16 revised.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, Inc. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.