

Unocal Corporation
1201 West 5th Street
Los Angeles, California 90017

Product Name: Unocal Multiplex EP (Green) Grease 2
Product Code: 05418

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Unocal Multiplex EP (Green) Grease 2
Product Code: 05418
Generic Name: Grease
Chemical Family: Petroleum hydrocarbon

Responsible Party: 76 Products Company
Union Oil Company of California
1201 West 5th Street
Los Angeles, California
90017

For further information contact Help Desk
8am - 4pm PT, Mon - Fri: 213-977-7589

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

For Chemical Emergencies:
Spill, Leak, Fire or Accident
Call CHEMTREC - Day or Night
(800)424-9300
AK, HI (202)483-7616 (collect)

Health Emergencies for
Unocal/UNO-VEN Products:
Los Angeles Poison
Information Center
Cont. US: (800)356-3129
Outside US: (213)222-3212

Health Hazards: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Physical Hazards: May ignite. Keep away from all sources of ignition.

- ▶ Physical Form: Semi-solid
- ▶ Appearance: Greenish black
- ▶ Odor: Mild, bland petroleum

NFPA HAZARD CLASS: Health: 1 (Slight)
Flammability: 1 (Slight)
Reactivity: 0 (Least)

Issue Date: 01/09/95
Revised Sections: 1,2,3,8,15

Status: Final Revised

. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% WEIGHT	EXPOSURE GUIDELINE		
		Limits	Agency	Type
Hydrotreated Distillate, Heavy Naphthenic CAS# 64742-52-5	0-70	(See: Oil Mist, If Generated)		
Bitumen, Unoxidized (Asphalt) CAS# 8052-42-4	1-5	(See: Asphalt (Petroleum) Fumes)		
Oil Mist, If Generated CAS# None		5 mg/m3	ACGIH	TWA
		10 mg/m3	ACGIH	STEL
		5 mg/m3	OSHA	TWA
		5 mg/m3	MSHA	TWA
		5 mg/m3	Cal.OSHA	TWA
Asphalt (Petroleum) Fumes CAS# 8052-42-4		5 mg/m3	ACGIH	TWA
		5 mg/m3	MSHA	TWA
		5 mg/m3	Cal.OSHA	TWA

OTHER COMPONENTS	% WEIGHT	EXPOSURE GUIDELINE		
		Limits	Agency	Type
Solvent Refined Distillate, Heavy Paraffin CAS# 64741-88-4	0-70	(See: Oil Mist, If Generated)		
Additives CAS# Proprietary	11-32	Not Established		
Hydrotreated Bottoms CAS# 64742-57-0	0-30	(See: Oil Mist, If Generated)		
Solvent Dewaxed Residual Oil CAS# 64742-62-7	0-30	(See: Oil Mist, If Generated)		

Note: OSHA exposure limits adopted in 1989 were vacated by the U.S. Court of Appeals. OSHA PEL's listed above (if any) may be included in those that were overturned, but are provided as guidance. Enforceable limits may be less stringent or not yet established.

3. HAZARDS IDENTIFICATION**POTENTIAL HEALTH EFFECTS:**

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Contact may cause mild skin irritation including redness, burning, and drying and cracking of the skin. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): No data available. However, inhalation is not an expected route of exposure.

Ingestion (Swallowing): No harmful effects reported.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract and signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, and fatigue).

Cancer: Inadequate data available to evaluate the cancer hazard of this material. See Section 11 for carcinogenicity information on individual components.

Target Organs: Potential hazard to the liver (see Section 11).

Developmental: No data available.

Other Comments: High-pressure grease-gun injury may cause serious delayed soft tissue injury.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and liver disorders.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Wipe material from skin and remove contaminated shoes and clothing. Cleanse affected area(s) thoroughly by washing with mild soap and water and, if necessary, a waterless skin

cleanser. If irritation or redness develops and persists, seek medical attention.

Inhalation (Breathing): First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air. Seek immediate medical attention.

Ingestion (Swallowing): No first aid is normally required; however, if swallowed and symptoms develop, seek medical attention.

Note To Physicians: High-pressure grease-gun injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flash Point: 450°F/232°C (COC)
OSHA Flammability Class: Not applicable
LEL: 0.9 / UEL: 7.0
Autoignition Temperature: No Data
Burn Rate (solids): No Data

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily.

Extinguishing Media: Dry chemical, foam, water, sand, or earth is recommended.

Fire Fighting Instructions: Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage (29CFR 1910.156). In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate damage area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk.

6. ACCIDENTAL RELEASE MEASURES

May ignite. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Isolate danger area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Notify fire authorities and appropriate federal, state, and local agencies. Cleanup under expert supervision is advised. Minimize dust generation. Sweep up and package appropriately for disposal. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

"Empty" containers retain residue (liquid and/or vapor) and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to Occupational Safety and Health Administration Regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat

and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required.

Personal Protective Equipment (PPE):

Respiratory: Respiratory protection is not usually required. The use of respiratory protection is advised when concentrations are expected to exceed the established exposure limits (see Section 2). Depending on the airborne concentration, use a respirator with appropriate cartridges (NIOSH approved, if available) or supplied-air equipment.

Skin: The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended.

Other Protective Equipment: It is suggested that a source of clean water be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Flash Point: 450°F/232°C (COC)

Flammable/Explosive Limits (%): LEL: 0.9 / UEL: 7.0

Autoignition Temperature: No Data

Burn Rate (solids only): No Data

Appearance: Greenish black

Physical State: Semi-solid

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Odor: Mild, bland petroleum
pH: No Data
Vapor Pressure (mm Hg): <0.01
Vapor Density (air=1): >5
Boiling Point: >590xF/310xC
Melting Point: 545xF
Solubility in Water: Negligible
Specific Gravity: 0.89 @ 60xF
Percent Volatile: Negligible
Evaporation Rate (nBuAc=1): <1
Bulk Density: 7.42 lbs/gal

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of storage and handling.

Conditions To Avoid: Extended exposure to high temperatures can cause decomposition.

Incompatible Materials: Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

Hazardous Decomposition Products: Combustion can yield major amounts of oxides of carbon and minor amounts of oxides of sulfur and nitrogen.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Hydrotreated Distillate, Heavy Naphthenic (CAS# 64742-52-5)

Target Organ(s): Administration of hydrotreated distillate heavy naphthenic in the diet to rats at 1500 mg/kg/day for 90 days resulted in limited evidence of liver damage characterized by increased liver weight, increased hepatic serum enzyme activity, and development of granulomatous tissues.

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12. DISPOSAL CONSIDERATIONS

This material, as produced, is not an EPA "listed" hazardous waste, but has not been evaluated using the Toxicity Characteristic Leaching Procedure. The EPA hazardous waste classification has not been determined.

Empty containers must be handled with care due to material residue. Empty drums should be completely drained, properly bunged, and promptly returned to the supplier or shipped to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Any rinsate may be considered RCRA hazardous waste and must be disposed of with care.

State and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

13. TRANSPORT INFORMATION

Hazard Class or Division: Not regulated

14. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of **SARA 313** and 40 CFR 372:

--None--

WARNING: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of **California Proposition 65** (CA Health & Safety Code Section 25249.5):

--None Known--

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. For carcinogenicity information on individual components, see Section 11.

EPA (CERCLA) Reportable Quantity: --None--

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15.DOCUMENTARY INFORMATION

Issue Date: 01/09/95
Previous Issue Date: 08/10/94
Product Code: 05418
Previous Product Code: 05418

16.DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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