

# Vacuum Pump Oil

**MSDS# VP-68**  
May 15, 2013

6 Total Pages

**1. IDENTIFICATION of the PRODUCT and the COMPANY or UNDERTAKING**

**Product Name:** Vacuum Pump Oil  
**Manufacturer:** DiversiTech  
 6650 Sugarloaf Parkway, Duluth, GA, 30097  
**Emergency Phone No.:** +1813.248.0585 24 Hours, 7 Days, Chem-Tel, Inc.  
**Phone (For Information):** 1+678.542.3600  
**Date:** 05/15/2013  
**Prepared By:** A. Jernigan

**2. HAZARD IDENTIFICATION**

**Emergency Overview:**

**Appearance and Odor:** Clear light brown. Liquid at room temperature. Slight hydrocarbon.  
**Health Hazards:** High-pressure injection under the skin may cause serious damage including local necrosis.  
**Safety Hazards:** Not classified as flammable but will burn.  
**Health Hazards:** Not expected to be a health hazard when used under normal conditions.  
**Health Hazards Inhalation:** Under normal conditions of use, this is not expected to be a primary route of exposure.  
**Skin Contact:** Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.  
**Eye Contact:** May cause slight irritation to eyes.  
**Ingestion:** Low toxicity if swallowed.  
**Other Information:** High-pressure injection under the skin may cause serious damage including local necrosis. Used oil may contain harmful impurities.  
**Signs and Symptoms:** Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Ingestion may result in nausea, vomiting and/or diarrhea.  
**Aggravated Medical Condition:** Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.  
**Environmental Hazards:** Not classified as dangerous for the environment.  
**Additional Information:** Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
 Appearance and odor: Clear straw yellow liquid; mild bland odor.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Phrases	CAS No.	EINECS No.	% BY WT.	Hazard Symbol	Risk
Heavy Naphthenic Clay					
Treated Petroleum Distillates	64742-44-5	265-146-1	94-100	T	R45

**EPA HAZARD CATEGORIES:** None

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*The meaning of Risk Phrases can be found in Section 15.*

## 4. FIRST AID MEASURES

**General Information:** Not expected to be a health hazard when used under normal conditions.

**Inhalation:** No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

**Skin Contact:** Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the effected person should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.

**Eye Contact:** Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

**Ingestion:** In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

**Advice to Physician:** Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimize tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anesthetics, and wide exploration is essential.

## 5. FIRE AND EXPLOSION HAZARD DATA

**Extinguishing media:** Use agents approved for Class B fires: dry chemical, CO<sub>2</sub>, foam, water fog.

**Special Fire Fighting Procedures:** firefighters should wear niosh/mnsa approved self-contained breathing apparatus and full protective gear when fighting fires involving this product. Keep containers cooled with a water spray if involved in a fire. Shut off the source of the spill if it is safe to do so. Cover the burning liquid with the extinguishing agent.

**Unusual Fire and Explosion Hazards:** Burning fluid may evolve irritating/noxious fumes, smoke carbon monoxide, and minor amounts of sulfur and nitrogen. Water may cause frothing or splattering when used as an extinguishing agent.

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## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment. See the **Exposure Controls/Personal Protection Section** of this MSDS. See the **Disposal Considerations Section** for information on disposal. Observe all relevant local and international regulations.

**Protective measures:** Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Clean Up Methods:** Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

**Additional Advice:** Local authorities should be advised if significant spillages cannot be contained. Spills that enter water bodies must be reported to the EPA National Response Center (800-546-2972)

## 7. PRECAUTIONS FOR SAFE HANDLING AND STORAGE

### HANDLING AND STORAGE:

Avoid contact with skin, eyes, and clothing. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers retain residue and can be dangerous. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Empty drums should be consigned to a licensed drum reconditioner. Storage Temperature: 0 - 50 °C / 32 - 122 °F

Keep this and all chemicals out of the reach of children.

**Recommended Materials:** For containers or container linings, use mild steel or high density polyethylene.

**Unsuitable Materials:** PVC.

**Additional Information:** Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

## 8. CONTROL MEASURES

**OSHA PEL:** 5 mg/m<sup>3</sup>, 8hr (oil mist)

**AIGCH TLV:** 10 mg/m<sup>3</sup>, 8hr (oil mist)

**Respiratory Protection (Specify Type):** Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

**Ventilation:** Local exhaust is recommended when used in enclosed areas.

**Protective Gloves:** Neoprene or nitrile gloves recommended to minimize skin contact. Other materials may be used if there is documented evidence of compatibility.

**Eye protection:** Safety glasses (ANSI Z87.1) or approved equivalent.

**Other Protective Clothing:** Neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

**Work Hygienic Practices:** Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating, smoking or using the toilet.

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## 9. PHYSICAL/CHEMICAL CHARACTERISTICS

**Appearance:** Light yellow liquid  
**Odor:** Petroleum oil odor  
**Odor threshold:** n.a.  
**pH:** n.a.  
**Melting point/freezing point:** n.a.  
**Initial boiling point and boiling range:** >260°C (176°F)  
**Flash point:** 165°C (330°F) COC  
**Evaporation rate (Water=1):** >10  
**Flammability limits %:**  
**Vapor pressure:** <.001kPa@20°C  
**Vapor density ( Air=1):** >5  
**Relative density:** 0.91  
**Solubility:** Insoluble in water  
**Partition Coefficient: n-octanol/water:** n.a.  
**Auto-ignition temperature:** n.a.  
**Decomposition temperature:** n.a.  
**Viscosity:** 55cSt@40°F  
**Explosive properties:** Not applicable  
**Oxidizing properties:** Not applicable  
n.a = not available

## 10. REACTIVITY DATA

**Stability:** Stable  
**Conditions to avoid:** Excessive heat; formation of oil mist.  
**Incompatibility (Materials to avoid):** Strong oxidizers, strong alkalis, strong acids, and compressed oxygen  
**Hazardous Decomposition or Byproducts:** Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified fragments when burned.  
**Hazardous Polymerization:** Will not occur

## 11. TOXICOLOGICAL INFORMATION

**Basis for Assessment:** Information given is based on data on the components and the toxicology of similar products.  
**Acute Oral Toxicity:** Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat  
**Acute Dermal Toxicity:** Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit  
**Acute Inhalation Toxicity:** Not considered to be an inhalation hazard under normal conditions of use.  
**Skin Irritation:** Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.  
**Eye Irritation:** Expected to be slightly irritating.  
**Respiratory Irritation:** Inhalation of vapors or mists may cause irritation.  
**Sensitization:** Not expected to be a skin sensitizer.  
**Repeated Dose Toxicity:** Not expected to be a hazard.  
**Mutagenicity:** Not considered a mutagenic hazard.

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**Carcinogenicity:** Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the **International Agency for Research on Cancer (IARC)**. Other components are not known to be associated with carcinogenic effects.

**Reproductive and Developmental Toxicity:** Not expected to be a hazard.

**Additional Information:** Used oils may contain harmful impurities that have accumulated during use and should be handled with caution and skin contact avoided as far as possible.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.**

**Acute Toxicity:** Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 >100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

**Mobility:** Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

**Persistence/degradability:** Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

**Bioaccumulation:** Contains components with the potential for bioaccumulation.

**Other Adverse Effects:** Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone potential or global warming potential.

## 13. DISPOSAL CONSIDERATIONS

**Material Disposal:** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

**Container Disposal:** Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

**Local Legislation:** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## Section 14. TRANSPORTATION INFORMATION

**UN Number:** None

**UN Proper Shipping Name:** None

**Transport Hazard Class(es): Packing group:** None

**Environmental Hazards:** Not environmentally Hazardous Substance of Marine Pollutant

**ADR/RID Transport Information** Not dangerous for transport under ADR/RID, IMO and IATA/ICAO regulations.

**ADR/RID Class** None Allocated

**ADR/RID Packing Group** None Allocated

**IMDG Hazard Class** None Allocated

**IMDG Packing Group** None Allocated

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**ADNR Class** None Allocated

**ADNR Item** None Allocated

**IATA Hazard Class** None Allocated

**IATA Packing Group** None Allocated

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable

## 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**T Toxic**

**R-Phrases**

R45: May cause cancer

**EINECS** All components listed or polymer exempt.

**TSCA** All components listed.

**DSL** All components listed.

**SARA Hazard Categories (311/312/313)**

**SARA 311/312:** No Hazards.

**Section 313:** Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

**State Regulatory Status**

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

HMIS DATA

**HAZARD RATINGS**

<b>HEALTH</b> = 1	0 = NONE
<b>FIRE</b> = 1	1 = SLIGHT
<b>REACTIVITY</b> = 0	2 = MODERATE
	3 = HIGH
	4 = EXTREME

**PERSONAL PROTECTION INDEX = B**

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.