

# SAFETY DATA SHEET

**Date Issued :** 7/5/2012  
**MSDS No :** F-3000-170  
**Date Revised :** 3/11/2013  
**Revision No :** 2

## Permavis 10

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Permavis 10  
**GENERAL USE:** Vacuum Pump Fluid  
**GENERIC NAME:** PV 10, Polyalphaolefins  
**ALTERNATE TRADE NAME(S) / PRODUCT CODE(S):** PV10CA, PV10CP, PV10DD, PV10Q1

#### MANUFACTURER

Kurt J Lesker Company  
 United States  
 1925 Route 51  
 Jefferson Hills, PA 15025  
**Customer Service:** 412-387-9200  
**E-Mail:** msds@lesker.com  
 Kurt J Lesker Company LTD  
 United Kingdom  
 15-16 Burgess Road  
 Hastings, East Sussex, TN35 4NR  
 England  
**Customer Service:** +44 (0) 1424 458100

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Response provided by  
 3E Global Incident Response Hotline

When calling, refer to Kurt J Lesker Company  
 Global Response Access Code: 333594

North America [USA, Canada, Mexico]: 1-866-519-4752  
 Mainland China: (+86) 4001 2001 74  
 Europe: {int'l call prefix}-1-760-476-3961  
 Asia Pacific: {int'l call prefix}-1-760-476-3960  
 Middle East & Africa: {int'l call prefix}-1-760-476-3959

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Environmental:

Chronic Hazards to the Aquatic Environment, Category 3

#### GHS LABEL

#### HAZARD STATEMENTS

H412: Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P273: Avoid release to the environment.

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear liquid

#### POTENTIAL HEALTH EFFECTS

**EYES:** Contact may cause eye irritation.

**SKIN:** May cause skin irritation.

**SKIN ABSORPTION:** May be harmful in contact with skin.

**INGESTION:** May be harmful if swallowed.

**INHALATION:** May be harmful if inhaled.

## REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS:** Not Available

**TERATOGENIC EFFECTS:** Not Available

**CARCINOGENICITY:** Not listed as a human carcinogen

**MUTAGENICITY:** Not Available

**ROUTES OF ENTRY:** Inhalation, ingestion, eye contact, or skin contact.

**SENSITIZATION:** None expected.

**PHYSICAL HAZARDS:** This substance is not considered hazardous in the form supplied.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name                       | Wt. % | CAS        |
|-------------------------------------|-------|------------|
| 1-Decene, homopolymer, hydrogenated | > 99  | 68037-01-4 |

## 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Rinse mouth. Get medical advice/attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE

**SKIN:** General observations of persons occupationally exposed to lubricants or mineral oils or products based on these oils indicate that higher viscosity oils can block skin pores causing an acne-like disorder. In addition, the oils or certain additives or impurities in the oils, as well as mechanical irritation from contaminants in oil based products, may cause dry cracked irritated skin (dermatitis).

The International Petroleum Industry Environmental Conservation Association (IPIECA) advises that there is sufficient read-across data to assess the skin irritancy hazard of most petroleum substances (hydrocarbons in general) may cause defatting of the skin, leading to skin dryness and cracking. It is advised to include appropriate warnings on the SDS.

**ACUTE TOXICITY:** Poses little or no immediate hazard.

**CHRONIC EFFECTS:** Not Available

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Combustible.

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Clean up spills immediately, observing precautions in Protective Equipment section.

**LARGE SPILL:** Collect spilled material in appropriate container. Spill may be reportable . Consult section 15 for Reportable Quantities.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

**GENERAL PROCEDURES:** Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources if safe to do so. Avoid formation of dust. Provide appropriate exhaust ventilation where dust is formed. Avoid breathing (dust, vapor, mist, gas). Practice good chemical hygiene during and after use. Avoid release to the environment.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** To avoid risks to human health and the environment, comply with the instructions for use.

**HANDLING:** Keep away from heat and flame. Keep container closed when not in use. Remove contaminated clothing and wash before reuse. Wash hands before eating and wash before reuse. Wash thoroughly after handling.

**STORAGE:** Keep container closed when not in use. Store in a cool dry place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses.

**SKIN:** Wear protective gloves.

**RESPIRATORY:** Not normally needed. If ventilation is inadequate and this material is handled at elevated temperatures or dusts/fumes/mists are generated a NIOSH/MSHA approved air purifying respirator with a manufacturers approved cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**WORK HYGIENIC PRACTICES:** Practice good chemical hygiene during and after use.

**COMMENTS:** There are no established workplace exposure limits for components of this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** None

**COLOR:** Clear

**pH:** Not Available

**PERCENT VOLATILE:** Not Available

**FLASH POINT AND METHOD:** 260°C (Closed cup)

**AUTOIGNITION TEMPERATURE:** Not Available

**VAPOR PRESSURE:** < 133 Pa at 20°C

**VAPOR DENSITY:** Not Available

**BOILING POINT:** Not Available

**POUR POINT:** -45°C

**SOLUBILITY IN WATER:** Negligible

**SPECIFIC GRAVITY:** 0.84

**VISCOSITY #1:** 9.4 to 10.2 cSt at (100°F)

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides

**INCOMPATIBLE MATERIALS:** Strong acids, Oxidizing materials, Halogens.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** Not Available

**SKIN ABSORPTION:** Not Available

**ORAL LD<sub>50</sub>:** Not Available

**INHALATION LC<sub>50</sub>:** Not Available

### CARCINOGENICITY

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**REPRODUCTIVE EFFECTS:** Not Available

**TERATOGENIC EFFECTS:** Not Available

**MUTAGENICITY:** Not Available

## 12. ECOLOGICAL INFORMATION

**BIOACCUMULATION/ACCUMULATION:** Not Available

**AQUATIC TOXICITY (ACUTE):** Not Available

**CHEMICAL FATE INFORMATION:** Not Available

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of according to applicable federal, state, provincial, and local regulations.

**PRODUCT DISPOSAL:** Contact a licensed waste disposal company.

**EMPTY CONTAINER:** Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

#### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not Regulated

**ROAD AND RAIL (ADR/RID)**

**PROPER SHIPPING NAME:** Not Regulated

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Not Regulated

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Not Regulated

**CANADA TRANSPORT OF DANGEROUS GOODS**

**SHIPPING NAME:** Not Regulated

#### 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** None

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All components of this product are included in inventory, exempt, or notified

**REGULATIONS**

**STATE REGULATIONS:** Not listed

**CALIFORNIA PROPOSITION 65:** This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

**CANADA**

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** Not Regulated

**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components of this product are included in inventory, exempt, or notified

#### 16. OTHER INFORMATION

**APPROVED BY:** EHS DEPT

**PREPARED BY:** E Bolton

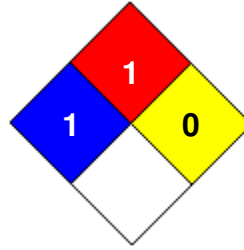
**INFORMATION CONTACT:** msds@lesker.com

**REVISION SUMMARY:** This MSDS replaces the 11/8/2012 MSDS.

### HMIS RATING

|                     |  |   |
|---------------------|--|---|
| HEALTH              |  | 1 |
| FLAMMABILITY        |  | 1 |
| PHYSICAL HAZARD     |  | 0 |
| PERSONAL PROTECTION |  | C |

### NFPA CODES



**GENERAL STATEMENTS:** The physical and toxicological properties of this material have not been thoroughly investigated.

### MANUFACTURER DISCLAIMER:

Kurt J. Lesker Company ("KJLC") believes the information contained in this Material Safety Data Sheet is accurate as of the "Date of Last Revision" specified. The information relates only to typical properties of the product. Do not use the information for product performance or specification purposes. The information is for use by technically skilled persons at their own risk. KJLC MAKES NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR THE INFORMATION. The information may not be valid for product use in combination with any other product or material or in any process. KJLC expressly disclaims any liability arising from any use of the product or any reliance on the information. Do not treat the information (a) as assurance that use of the product will not infringe patent or other rights or (b) as a license or grant of patent or other property rights. "KJLC" means KJLC and each of its subsidiaries.