

## Material Safety Data Sheet

Revision Date January 2008

For Chemical Emergency Call Chemtrec 800-424-9300

- 1. Substance/Company Identification**      PRODUCT NAME:      **ULVAC R-4 Rotary Vacuum Pump Oil**  
CAS NUMBER: 64742-65-0  
DISTRIBUTOR:      ULVAC Technologies, Inc  
401 Griffin Brook Drive  
Methuen, MA 01844  
(978) 686-7550
- 2. Composition/ Ingredients**      GENERIC NAME:      100% Solvent refined Neutral paraffinic oil  
CHEMICAL FORMULA:  $(CH_2)_n$      $20 \leq n \leq 40$   
HAZARDOUS INGREDIENTS: None
- 3. Hazards Identification**      POSSIBLE ENTRY ROUTES: Ingestion, inhalation of oil mists  
This product is not classified as hazardous.  
ACUTE EFFECTS: Exposure to oils mists may cause nausea and eye irritation. Detailed studies have not been made, but material is not expected to be dermatitic or a sensitizer.  
CHRONIC EFFECTS: Unknown.
- 4. First Aid Measures**      SKIN: Wash with soap and water.  
EYES: Flush with water. Contact a physician!  
INGESTION: If swallowed, do not induce vomiting.  
Contact a physician. Small amounts in mouth may be washed out.
- 5. Fire Fighting Measures**      FLASH POINT: 213 C  
METHOD USED: Cleveland Open Cup  
EXPLOSIVE LIMITS    LOWER: Unknown    UPPER: Unknown  
EXTINGUISHING MEDIA: Water fog, chemical foam or carbon dioxide. NFPA Class III B Material.  
SPECIAL FIREFIGHTING PROCEDURES: Wear breathing gear when fighting fires in enclosed spaces; incomplete combustion of this material produces carbon monoxide!  
UNUSUAL FIRE AND/OR EXPLOSION HAZARDS: None
- 6. Accidental Release Measures**      PROCEDURE TO BE FOLLOWED IN EVENT OF RELEASE: Small spills may be wiped up with a rag. Large spills should be picked up immediately with an absorbent.
- 7. Handling and Storage**      HANDLING: None known  
STORAGE: None known
- 8. Exposure Controls/Personal Protection**    ENGINEERING CONTROL MEASURES: None required  
RESPIRATORY PROTECTION: See notes on ventilation below.  
PROTECTIVE GLOVES: Yes - made of oil-impermeable rubber  
SAFETY GLASSES/GOGGLES: Yes - glasses should have side shields  
OTHER PROTECTIVE EQUIPMENT: None should be required under normal use.

**9. Physical & Chemical Properties**

PHYSICAL STATE: Liquid  
 VAPOR PRESSURE:  $< 5 \times 10^{-3}$  Torr @ 25C  
 BOILING POINT: >200 C  
 EVAPORATION RATE (ether = 1): Nil  
 VAPOR DENSITY: approximately 14  
 WT % VOLATILES: Nil  
 SPECIFIC GRAVITY: 0.87  
 VISCOSITY: 52 cst @ 40 C  
 SOLUBILITY IN WATER: Nil  
 APPEARANCE: Pale yellow viscous liquid with a faint petroleum odor.

**10. Stability & Reactivity**

STABILITY: Material is stable  
 CONDITIONS TO AVOID: Continuous exposure to temperatures > 200 C  
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers  
 HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion may produce carbon monoxide.

**11. Toxicological Information**

ACUTE ORAL LD50(MG/KG): None known  
 ACUTE DERMAL LD50: None  
 ACUTE INHALATION: US Gov't 8 hr TWA limit for exposure to oil mists is 5 mg per cubic meter

**12. Ecological Information**

ENVIRONMENTAL: When used and/or disposed of as indicated, no adverse environmental effects are foreseen.  
 MOBILITY: Non-volatile and insoluble in water.  
 DEGRADABILITY: Slowly biodegradable in aerobic conditions.

**13. Disposal Considerations**

Product and packaging must be disposed of in accordance with Federal, State and local regulations.

**14. Transport Classification**

Not classified as hazardous for transport by air, sea or road.

**15. Regulatory Information**

None

**16. Other Information****NFPA RATING**

FLAMMABILITY	1
HEALTH HAZARD	0
REACTIVITY	0
SPECIAL HAZARD	NONE