



## Material Safety Data Sheet

Revision Date January 2003

For Chemical Emergency Call Chemtrec 800-424-9300

- 1. Substance/Company Identification**      **PRODUCT NAME:**      **ULVAC R-2 Rotary Vacuum Pump Oil**  
CAS NUMBER: 68037-01-4  
**DISTRIBUTOR:**      ULVAC Technologies, Inc.  
401 Griffin Brook Drive  
Methuen, MA 01844  
(978) 686-7550
- 2. Composition/ Ingredients**      **GENERIC NAME:** 100% Synthetic Aliphatic Hydrocarbon  
**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:** Ingestion: non-toxic, Eyes: not an irritant, Skin: Not a  
Primary irritant or corrosive, Inhalation: Non-hazardous in normal use  
**CHRONIC EFFECTS:** Unknown.
- 4. First Aid Measures**      **SKIN:** Wash with soap and water.  
**EYES:** Flush with water. Contact a physician!  
**INGESTION:** Give liquids (except fruit juice) if victim is conscious, do not  
ingest sodium bicarbonate, or vinegar . Do not induce vomiting.  
Contact a physician.Small amounts in mouth may be washed out.
- 5. Fire Fighting Measures**      **FLASH POINT:** 240 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:** Firefighters should  
wear self-contained breathing apparatus in the positive-pressure mode with a  
full face piece when there is a possibility of exposure to smoke, fumes or  
hazardous decomposition products.
- 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: < 5x10<sup>-3</sup> Torr @ 25C  
 BOILING POINT: 455 C  
 EVAPORATION RATE (ether = 1): Nil  
 VAPOR DENSITY: approximately 14  
 WT % VOLATILES: Nil  
 SPECIFIC GRAVITY: 0.83  
 VISCOSITY: 20 cst @ 40 C  
 SOLUBILITY IN WATER: Nil  
 APPEARANCE: Colorless liquid with no 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.  
 HAZARDOUS POLYMERIZATION: None likely

**11. Toxicological Information**

ACUTE ORAL LD50(mg/kg): greater than 5.0g/kg(rats) The material is not classified as toxic by oral administration as defined in 16 CFR 1500.  
 ACUTE DERMAL: The primary irritation index was found to be 0.5(scale0-8) based on erythema and edema.No evidence of tissue damage was found. The material is not classified as a primary irritant or as a corrosive by dermal application as defined by 16 CFR 1500.  
 ACUTE INHALATION LD50(mg/l: 4.68(rats) for 1 hour. Would be difficult to work in this heavy mist. May be considered non-hazardous, by inhalation, for all practical purposes.

**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