

Material Safety Data Sheet

Revision Date January 2008

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: $< 5 \times 10^{-3}$ 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