

CLEARCO PRODUCTS, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **Pure Silicone Fluid 0.65**
CHEMICAL NAME: HEXAMETHYLDISILOXANE
SYNONYMS: HMDS, HMDSO, MM
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: $C_6H_{18}OSi_2$

HMS CODES HEALTH: 0 FLAMMABILITY: 4 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	
HEXAMETHYLDISILOXANE	107-46-0	100	Flammable liquid

PHYSICAL DATA

Boiling Point:	99-100°C	Freezing Point:	(-67°C)
Specific Gravity:	0.764	Vapor Pressure, 30°:	35mmHg (25°C)
Vapor Density (air = 1):	>1	Solubility in water:	insoluble (<1ppm)
% Volatiles:	100	Evaporation rate (butyl acetate = 1):	>1
Molecular Weight:	162.38	Viscosity:	0.65 cSt.
Appearance/Color:	Clear, odorless liquid		

FIRE & EXPLOSION DATA

Flash Point, COC: -1°C (30°F) Auto ignition Temp: 340°C (644°F)
Flammability Limits- Lower: 1.0% Upper: 38.0%

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame. Liquid generates strong static charge when poured.

ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: May be incinerated. Alternately, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Vapors may cause immediate or delayed eye irritation. Liquid may cause severe conjunctivitis and corneal damage

Skin contact: May produce irritation. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity - gpg, LDLo: 32,500mg/kg

Chronic Toxicity: There are no known chronic effects related to this compound.

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable in sealed containers in a cool place.

Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Avoid contact with peroxides, oxidizing agents.

Hazardous decomposition products: Organic Acid Vapors.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor amine gas respirator.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available.

Launder clothing before reuse.

OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers. Ground containers during transfer.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (HEXAMETHYLDISILOXANE)

DOT HAZARD CLASS: 3.2

DOT LABELS: Flammable Liquid

DOT ID No: UN1993 PG II

Prepared by safety and environmental affairs

ISSUE DATE: 5/2003

SUPERSEDES: 12/26/01

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