

**Clearco Products**  
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**MATERIAL SAFETY  
DATA SHEET**

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **Pure Silicone Fluid 2cSt (PSF-2cst)**  
CHEMICAL NAME: POLYDIMETHYLSILOXANE  
SYNONYMS: Dodecamethylpentasiloxane  
CHEMICAL FAMILY: SILICONE  
HMIS CODES HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS #	%	TLV OSHA PEL
Dodecamethylpentasiloxane	141-63-9	>90%	Not established
Decamethyltetrasiloxane	141-62-8	<10%	Not established
Octamethylcyclotetrasiloxane	556-67-2	<10%	Not established

**PHYSICAL DATA**

Boiling Point: 85 to 105°C @ 2-4mm  
Specific Gravity: 0.88  
Vapor Density (air = 1): >1  
% Volatiles: NA  
Molecular Weight: 310-458  
Appearance & Color: Clear, nearly odorless liquid

Freezing Point: <-40°C  
Vapor Pressure: <1mm  
Solubility in water: insoluble  
Evaporation rate: NA  
Viscosity: 2.0cSt

**FIRE & EXPLOSION DATA**

Flash Point, COC: 70°C (158°F)  
Flammability Limits- LEL: NA

Auto ignition Temp: 430°C  
UEL: NA

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 severe eye irritation.  
Skin contact: No information available. Avoid contact.

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

Oral Toxicity: not determined

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, and 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. To conscious individual, give 1 cup of water to dilute ingested fluid. Get medical attention.

#### REACTIVITY DATA

Stability: Stable

Conditions to avoid: Combustible; Store away from oxidizers.

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

Hazardous decomposition products: Organic Acid Vapors, formaldehyde and silicon dioxide.

#### 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.

Containers require grounding during use.

#### TRANSPORTATION

DOT SHIPPING NAME: POLYDIMETHYLSILOXANE

DOT HAZARD CLASS: None required

DOT LABELS: None required

DOT ID No: None Required

Prepared by safety and environmental affairs    ISSUE DATE PSF-2cSt: 11/21/2005

SUPERSEDES: 7/1/98

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