

**Clearco Products Co., Inc.**  
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**MATERIAL SAFETY DATA SHEET**

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NAME USED ON LABEL: **PSF-20,000,000cSt Dimethicone Fluid**  
CHEMICAL NAME: POLYDIMETHYLSILOXANE  
SYNONYMS: Silicone Oil  
CHEMICAL FAMILY: SILICONE  
HMIS CODES HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

**INGREDIENTS**

Identity	CAS No. %	TLV	OSHA PEL
Polydimethylsiloxane	63148-62-9 >95%	Not established	Not established
Octamethylcyclotetrasiloxane	556-67-2 <2%	Not established	Not established

**PHYSICAL DATA**

Boiling Point: >205°C  
Specific Gravity: 0.978  
Vapor Density (air = 1): NA  
% Volatiles: <2  
Molecular Weight: >500,000  
Appearance & Color: Clear, nearly odorless liquid

Freezing Point: <-40°C)  
Vapor Pressure: not determined  
Solubility in water: insoluble  
Evaporation rate (butyl acetate = 1): NA  
Viscosity: 20,000,000cSt

**FIRE & EXPLOSION DATA**

Flash Point, COC: 321°C (610°F)  
Flammability Limits- LEL: NA UEL: NA

Auto-ignition Temp: 490°C

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: Sweep material and transfer to suitable container for disposal.  
Recommended Disposal: May be incinerated. Follow all chemical pollution control regulations.

**HEALTH HAZARD DATA**

Eye Contact: Vapors may cause immediate or delayed severe eye irritation.

Skin contact: A single relatively short exposure causes no adverse effect. Several prolonged exposures may cause mild irritation. Avoid contact.

Inhalation: No information available. Avoid inhalation.

Oral Toxicity- rat, LD50: >40,000mg/kg  
Inhalation Toxicity-rat, LC50: >525mg/L

Chronic Toxicity: This product has no components present at more than 0.1% that are listed as carcinogens or suspected carcinogens by NTP, IARC or OSHA.

#### **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: Store away from oxidizers.

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: Oils, lubricating, O/T Petroleum, NOI

DOT HAZARD CLASS: None required

DOT LABELS: None required

DOT ID No: None required

Prepared by safety and environmental affairs    ISSUE DATE DMS-T72: 2/27/04

SUPERSEDES: 7/1/98

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