

**Clearco Products Co., Inc.**  
3430 G Progress Drive, Bensalem, PA 19020 U.S.A.  
Phone: 001 (215) 639-2640

**MATERIAL SAFETY DATA SHEET**

Emergency Telephone Number  
CHEM-TEL: 1 (800) 255-3924  
CHEM TEL: 1-800-255-3924 (DOMESTIC)  
+01-813-248-0585 (INTERNATIONAL)

**Date Prepared 4/05/2011**

NAME USED ON LABEL: **PSF-2,500,000cSt 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: 400,000 – 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: 2,000,000 – 3,000,000cSt

**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: >535mg/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

The information contained in this document has been gathered from reference materials and/or Clearco Inc. test data and is to the best knowledge and belief of Clearco Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones, which exist. Clearco Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore.