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MATERIAL SAFETY DATA SHEET

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NAME USED ON LABEL: **PSF-600,000cSt Silicone Damping Fluid**
CHEMICAL NAME: Polydimethylsiloxane
SYNONYMS: SILICONE OIL
CHEMICAL FAMILY: SILICONE
HMIS CODES: HEALTH: 1 (Slightly toxic- May cause slight irritation)
FLAMMABILITY: 1 (Slightly combustible- Requires strong heating to ignite)
REACTIVITY: 0 (Normally stable, does not react with water)

INGREDIENTS

Identity	CAS #	%	TLV (threshold limit value)	OSHA PEL (permissible exposure limit)
Poly(Dimethylsiloxane),	63148-62-9	>95%	not established	not established
Octamethylcyclotetrasiloxane	556-67-2	<2%	not established	not established

PHYSICAL DATA

Boiling Point: >205°C	Melting Point: <-40°C	
Specific Gravity: 0.978	Vapor Pressure: not determined	
Vapor Density, air = 1:	NA	Solubility in water: insoluble
% volatiles:	<2	Evaporation rate: NA
Molecular Weight:	220,000-290,000	Viscosity: 600,000 cSt
Appearance & Color:	Clear viscous liquid	

FIRE & EXPLOSION DATA

Flash Point, COC: 321°C (610°F) Autoignition Temp.: 490°C
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Water spray or fog, 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.

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ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.

Skin contact: A single relatively short exposure causes no adverse effect. Several or 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. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual give one full cup of water to dilute ingested material. Get medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Store away from oxidizers.

Hazardous decomposition products: Organic acid vapors, formaldehyde and silicon dioxide.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is recommended. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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.

Laundry clothing before reuse.

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OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

Spillage of this material may create a slippery condition for foot or vehicle traffic.

TRANSPORTATION

DOT SHIPPING NAME: Oils, lubricating, O/T Petroleum, NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs:

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