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MATERIAL SAFETY DATA SHEET

Emergency Telephone Number
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CHEMTEL CONTRACT # MIS0001670

Date Prepared 10/1/2010

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

INGREDIENTS

IDENTITY	CAS No.	%	TLV OSHA PEL
Polydimethylsiloxane	63148-62-9	100	Not established

PHYSICAL DATA

Boiling Point: 229°C
Specific Gravity: 0.88
Vapor Density (air = 1): >1
% Volatiles: NA
Molecular Weight: 310-458
Appearance & Color: Clear, nearly odorless liquid

Freezing Point: <-90°C
Vapor Pressure: 1mmHg (25°C)
Solubility in water: Insoluble
Evaporation rate: <1 (butyl acetate = 1)
Viscosity: 2.0cSt

FIRE & EXPLOSION DATA

Flash Point, Closed Cup: 75°C (167°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: 8/31/2009

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