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MATERIAL SAFETY DATA SHEET

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CHEMTEL CONTRACT # MIS0001670

Date Prepared 10/1/2010

NAME USED ON LABEL: **PSF-1.5cSt Silicone Heat Transfer Fluid**

CHEMICAL NAME: Polydimethylsiloxane

SYNONYMS: Decamethyltetrasiloxane,

CHEMICAL FAMILY: Silicone

HMIS CODES HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

INGREDIENTS

| Identity | CAS # | % | TLV OSHA PEL |
|---------------------------|----------|-----|-----------------|
| Decamethyltetrasiloxane | 141-62-8 | >85 | Not established |
| Dodecamethylpentasiloxane | 141-63-9 | <10 | Not established |
| Octamethyltrisiloxane | 107-51-7 | <10 | Not established |

PHYSICAL DATA

Boiling Point: >152 to 220°C

Specific Gravity: 0.85

Vapor Density (air = 1): >1

% volatiles: 100

Molecular Weight: 310

Appearance & Color: Clear, nearly odorless liquid

Freezing Point: <-76°C

Vapor Pressure, 25°: 4mm

Solubility in water: 6.7 parts per billion

Evaporation rate (butyl acetate = 1): 0.7

Viscosity: 1-2cSt.

FIRE & EXPLOSION DATA

Flash Point, COC: 63°C (145°F)

Flammability Limits- LEL: 0.9%

Auto ignition Temp: 425°C (797°F)

UEL: 13.8%

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: May produce irritation or contact dermatitis, which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

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, 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: Combustible; avoid contact with heat, sparks or open flame.

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

Hazardous decomposition products: Organic Acid Vapors.

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: FLAMMABLE LIQUID, N.O.S. (POLYDIMETHYLSILOXANE)

DOT HAZARD CLASS: None required

DOT LABELS: None required

DOT ID No: None required

Prepared by safety and environmental affairs ISSUE DATE PSF-1.5cSt: 8/31/2009

SUPERSEDES: NONE

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