

Material Safety Data Sheet

PSF-1.5cSt Silicone Heat Transfer Fluid



Data Prepared: October 15th, 2014

SECTION I: PRODUCT INFORMATION

Product Name: **PSF-1.5cST Silicone Heat Transfer Fluid**

Product Code: PSF-1.5cSt

Provided by: **CLEARCO PRODUCTS CO. INC.,**
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General Description: Silicone Fluid, Polydimethylsiloxane

Physical Form: Liquid

Color: Colorless

Odor: Characteristic Odor

SECTION II: COMPOSITION

SINGLE OR MIXTURE: Single

PRODUCT CLASSIFICATION: Silicone Fluid

Decamethyltetrasiloxane/ (141-62-8)[Combustible Liquid] : 100%

SECTION III: HAZARDOUS INFORMATION

HAZARDS CLASSIFICATION: Combustible Liquids (based on DOT)

FIRE AND EXPLOSION: Combustible

POTENTIAL HEALTH EFFECT:

Inhalation: Estimated to be harmful.

Skin Contact: May cause slight skin irritation.

Eye contact: May cause slight eye irritation.

Ingestion: Low harmful

SECTION IV: FIRST AIR MEASURES

INHALATION: Remove to fresh air.

SKIN CONTACT: Remove product from skin with dry cloth or towel, and wash exposed area with detergent.

EYE CONTACT: Immediately flush with water for at least 15 minutes.

INGESTION: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION V: FIRE FIGHTING MEASURES

Flash Point (method used): 64°C (Closed cup)

Flammable Limits: LOWER: not measured UPPER: not measured

Extinguishing Media: Foam, dry chemical, fine water spray or carbon dioxide

Special Fire Fighting Procedure: Not required

Unusual Fire and Explosion Hazard: None

SECTION VI: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

- Shut off all ignition sources.
- Contain the spill or leak.
- Scrape up with rag or cardboard and place in a container.

SECTION VII: HANDLING & STORAGE

PRECAUTION TO BE TAKEN IN HANDLING AND STORING:

- Keep container closed when not in use.
- Store in a cool place.
- Keep away from heat, sparks and flame.
- Do not lay the container on its side.
- Use with adequate ventilation.
- Avoid prolonged breathing vapor.
- Avoid contact with eyes and prolonged or repeated skin contact.
- Keep out of reach of children.
- *** Information about the empty container ***
- Do not re-use this container.
- This container will be very hazardous when emptied.
- Residues will be explosive or flammable.
- Keep away from heat, sparks and flame.
- Do not puncture or cut this container, and do not weld on or near this container.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

- ACGIH TLV-TWA: Not established,
- OSHA PEL: Not established

RESPIRATORY PROTECTION (specify type): Not required

VENTILATION:

- LOCAL EXHAUST: Recommended
- MECHANICAL (general): Adequate ventilation system
- SPECIAL: Unknown
- OTHER: Unknown

PROTECTIVE GLOVES: Plastic film or rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE CLOTHING: Eyewash equipment.

WORK/HYGIENIC PRACTICES:

Keep away from heat, sparks and flame. Avoid prolonged breathing vapor. Avoid contact with eyes and prolonged or repeated skin contact. Wash hands and gargle after handling.

SECTION IX: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT:	194°C
VAPOR PRESSURE:	1mmHg (25°C)
VAPOR DENSITY (air=1):	>1
SPECIFIC GRAVITY:	0.852 (25°C)
MELTING POINT:	-76°C
EVAPORATION RATE:	<1 (Butyl Acetate=1)
SOLUBILITY IN WATER:	Not soluble (<1 ppm)
APPEARANCE (color):	Colorless, transparent
APPEARANCE (form):	Fluid
ODOR:	Odorless

SECTION X: STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY (material to avoid): None
HAZARDOUS DECOMPOSITION OR BY-PRODUCT: None
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None

SECTION XI: TOXICOLOGY INFORMATION

SKIN IRRITATION: Essentially nonirritating to skin.
EYE IRRITATION: May cause transitional slight eye irritation.
SENSITIZATION: No evidence of sensitization No evidence of allergenic potential
ACUTE TOXICITY (LD50): LD50 (Oral/Rat): >5g/kg
ACUTE TOXICITY (LC50): LC50 (Inhalation/Rat): >5g/m3/Hr (estimated by similar Dimethylsiloxane)
SUBACUTE TOXICITY: Dose of high concentration may develop increased organ weight in small animals.
CHRONIC TOXICITY: No information is available.
CARCINOGENICITY: NTP: not listed, OSHA REGULATED: Not listed
MUTAGENICITY: No evidence of mutagenicity
REPRODUCTIVE EFFECT: No information is available.
TERATOGENIC EFFECT: No information is available.
INFORMATION: None.

SECTION XII: ECOLOGICAL INFORMATION

BIODEGRADATION: No evidence of biodegradation.
BIOACCUMULATION: May cause bioaccumulation.
AQUATIC TOXICOLOGY: No evidence of aquatic toxicity.
OTHER INFORMATION: Vapor undergoes indirectly photolysis in troposphere.

SECTION XIII: DISPOSAL CONSIDERATIONS

Can be burned in chemical incinerator equipped with afterburner and scrubber. Do not dispose of empty container unless the contents have been completely removed and container has been flushed with a clean neutral solvent and then dried up. Do not dispose the emptied container unlawfully. Observe all federal, state, and local laws.

SECTION XIV: TRANSPORT INFORMATION

UN No.: None
DOT NA No.: NA 1993
IMO CLASSIFICATION AND CLASS: None
PACKAGING GROUP (DOT): III
PROPER SHIPPING NAME: Combustible Liquids, N.O.S.
TECHNICAL SHIPPING NAME: Organosiloxane
MARINE POLLUTANT: None
Remarks: Above applies only to containers over 119 gallons or 450 liters.

<DOT INFORMATION>
HAZARD SUBSTANCE (S) NAME / (CAS No.), CONTENTS AND RQ : Not applicable

SECTION XV: REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS: Listed on the TSCA Inventory.

Superfund Amendments And Reauthorization Act Of 1986 (Sara) Title Iii Section 313 Supplier Notification:
This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the emergency planning and community Right-To-Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.

The toxic chemical(s) contained in this product are: CHEMICAL NAME / (CAS No.) AND CONTENTS: None.

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 Chemical (s) under the statute.

The California Proposition 65 Chemical (s) contained in this product are:

CHEMICAL NAME / (CAS No.) AND CONTENTS: None.

SECTION XVI: OTHER INFORMATION

This material safety data sheet is offered solely for your information, consideration and investigation. The data described in this MSDS consist of data on literature, our acquisitioned data and analogical inference by data of similar chemical substance or product. Clearco Silicones, Inc. provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.