

*Material Safety Data Sheet*  
**PSF-2cSt Silicone Heat Transfer Fluid**



Data Prepared: April 1<sup>st</sup>, 2012

**SECTION I: PRODUCT INFORMATION**

Product Name: **PSF-2cSt Silicone Heat Transfer Fluid**

Provided by: **CLEARCO PRODUCTS CO. INC.,**  
3430 G. Progress Drive  
Bensalem, PA 19020 U.S.A.

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

General Description: Silicone Fluid, Polydimethylsiloxane  
Physical Form: Liquid  
Color: Colorless  
Odor: Characteristic Odor

HMIS Rating: Health: 0 Flammability: 2 Reactivity: 0

**SECTION II: INGREDIENT INFORMATION**

INGREDIENT	CAS#	%WT.
Polydimethylsiloxane	63148-62-9	100.00

**SECTION III: PRECAUTIONARY STATEMENT**

**PRECAUTION TO BE TAKEN IN HANDLING AND STORING:**

Container should be kept closed when not in use and stored in a cool place. Keep away from heat, sparks, and flame. Do not lay the container on its side. Use with adequate ventilation and breathing vapors for a prolonged period of time. Avoid contact with eyes and prolonged or repeated skin contact. Keep out of reach of children.

**INFORMATION ABOUT EMPTIED CONTAINERS:**

Do not re-use the container. The container is considered hazardous when emptied. Residues will be explosive or flammable. Keep away from flame, sparks, and heat. Do not puncture, cut, or weld near the empty container.

**SECTION IV: HEALTH INFORMATION & PROTECTION**

**EYE CONTACT:** Slightly irritating but does not injure eye tissue

**SKIN CONTACT:** Single, prolonged exposure causes no know effect. Several repeated, prolonged exposures may cause slight irritation and drying of skin.

**INHALATION:** No irritation to nose or throat expected. No injury is likely from relatively short exposure. Avoid mist or aerosol mists. Mists may seriously irritate nose, throat and lungs.

**INGESTION:** No known, adverse chronic health effects, but unnecessary exposure to any chemical should be avoided. This product, as with any chemical, may enhance allergic conditions, on certain people. There are no known, medical conditions that might be aggravated by exposure to this product.

First Aid

EYE CONTACT: Flush eyes with large amounts of water, for at least 15 minutes, until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT: Flush with large amounts of water, use soap if available. Remove grossly contaminated clothing, including shoes. Launder before reuse.

INHALATION: Remove to fresh air.

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 & EXPLOSION HAZARD**

FLASHPOINT: 75°C (167 °F) Method: Closed Cup  
BOILING POINT: 229°C (442.2 °F)

Empty drums should be completely drained, properly bunged, promptly returned to a drum reconditioned, or properly disposed of.

**FIRE FIGHTING:**

Use water spray to cool fire exposed surfaces and to protect personal. Isolate "fuel" supply from fire. Use foam, dry chemical, or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boilover.

**SECTION VI: SPILL CONTROL PROCEDURES**

**LAND SPILL:**

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedures. For large spills, implement cleanup procedures. If in public area, keep public away and advise authorities. If this product is subject to CERLA reporting, notify the National Response Center.

**WATER SPILL:**

Remove from surface by skimming or with suitable absorbents. Consult an expert on disposal regulated material and ensures conformity to local disposal regulations.

**SECTION VII: HAZARD RATINGS**

This information is for people trained in:

National Paint & Coatings (NPCA)  
Hazardous Materials Identification System (HMIS)  
National Fire Protection Association (NFPA 704)  
Identification of the Fire Hazards of Material.

	<u>NPCA-HMIS</u>	<u>NFPA 704</u>	<u>KEY</u>
Health	0	0	4-Severe
Flammability	2	2	3-Serious
Reactivity	0	0	2-Moderate
			1-Slight
			0- Minimal

**SECTION VIII: TRANSPORT INFORMATION**

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name: Combustible Liquids, N.O.S.  
Hazard Technical Name: Polydimethylsiloxane  
Hazard Class: C  
UN/NA Number: NA 1993  
Packing Group: III  
Remarks: Above applies only to containers over 119 gallons or 450 liters.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations

## SECTION IX: TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Vapor Pressure:	11mmHg (25°C)
Vapor Density (air=1):>1	
Specific Gravity:	0.873 (25°C)
Evaporation Rate:	<1 (Butyl Acetate =1)
Stability:	Stable
Appearance (color):	Colorless, transparent
Appearance (form):	Fluid
Odor:	Odorless
Water Solubility:	Not Soluble

## SECTION X: REACTIVITY DATA

Conditions to avoid hazardous polymerization:	Not applicable
Materials & conditions to avoid incompatibility:	None
Hazardous decomposition products:	None

## SECTION XI: STORAGE AND HANDLING

Electrostatic Accumulation:	Use proper grounding procedure
Storage Temperature:	Ambient
Storage/Transport Pressure:	Atmospheric
Loading/Unloading Temperature:	Ambient

## SECTION XII: TOXICOLOGICAL INFORMATION

### Eye Irritation

May cause transitional or slight eye irritation

### Skin Irritation

Patch Test (24 Hr/Open): Almost Negative (1%)

### Skin Sensitization Potential

No evidence of sensitization or allergic potential

### Acute Toxicity

LD50 (oral/Rat): >5g/kg

LC50 (Inhalation/Rat): >5g/m<sup>3</sup>/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, IARC: Not Listed, OSHA REGULATED: Not Listed

### Mutagenicity

No evidence of mutagenicity

### Special Hazard Information on Components

No known applicable information.

## SECTION XIII: ECOLOGICAL INFORMATION

### Biodegradation:

No evidence of biodegradation

### Bioaccumulation:

May cause bioaccumulation.

### Aquatic Toxicity:

No evidence of aquatic toxicity

Other Information:

Vapor undergoes indirectly photolysis in the troposphere

**SECTION XIV: DISPOSAL CONSIDERATIONS**

Do not dispose the emptied container unlawfully.  
Observe all federal, state, and local laws.

**SECTION XV: REGULATORY INFORMATION**

Content of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355):  
None

Section 304 CERCLA Hazardous Substances (40 CFR 302):  
None

Section 311/312 Hazard Class (40 CFR 370):

Acute:	No
Chronic:	No
Fire:	No
Pressure:	No
Reactive:	No

Section 313 Toxic Chemicals (40 CFR 372):  
None present or none present in regulated quantities

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 acquisitional data and analogical inference by data of similar chemical substance product. Clearco Products Co Inc, provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data container herein.