

Material Safety Data Sheet
PSF-1cSt Pure Silicone Fluid
Octamethyltrisiloxane



Data Prepared: October 15th, 2014

SECTION I: PRODUCT INFORMATION

Product Name: **PSF-1cSt Pure Silicone Fluid Octamethyltrisiloxane**
Product Code: PSF-1cSt

Chemical Name: Polydimethylsiloxane
Chemical Family: Silicone

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

Telephone No: 001 215 639-2640
Fax No: 001 215 639-2919
E-mail: info@clearcoproducts.com
Website: www.clearcoproducts.com

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: Odorless

HMIS CODES: HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0

SECTION II: INGREDIENT INFORMATION

INGREDIENTS

Identity	CAS#	%	TLV OSHA PEL
Octamethyltrisiloxane	107-51-7	100	Not established

Section III: Precautionary Statement

PRECAUTION TO BE TAKEN IN HANDLING AND STORAGE:

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 avoid breathing vapors for a prolonged period of time. Avoid contact with eyes and prolonged or repeated skin contact. Static electricity may accumulate and cause a fire hazard. 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 and 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 known 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 with water provided person is conscious. Never give anything by mouth to an unconscious person.

Section V: FIRE & EXPLOSION HAZARD

FLASHPOINT:	37°C(98.6°F)	METHOD: Closed Cup
BOILING POINT:	153°C(307.4°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 sprayed water directly into storage containers due to danger of boilover. Used supplied breathing air and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Vapors from explosive mixtures with air. Vapors may travel considerable distance to source of ignition and flash back.

Section VI: SPILL CONTROL PROCEDURE

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 and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA 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 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 Association (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	1	1	4-Severe
FLAMMABILITY	3	3	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: FLAMMABLE LIQUIDS, N.O.S.
Hazard Technical Name: OCTAMETHYLTRISILOXANE
Hazard Class: 3
UN/NA Number: UN1993
Packing Group: III

Ocean Shipment(IMDG)

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.
Hazard Technical Name: OCTAMETHYLTRISILOXANE
Hazard Class: 3
UN/NA Number: UN1993
Packing Group: III

AIR SHIPMENT (IATA)

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.
Hazard Technical Name: OCTAMETHYLTRISILOXANE
Hazard Class: 3
UN/NA Number: UN1993
Packing Group: III

Section IX: TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Vapor Pressure: 4mmHg @ 25°C (77°F)
Vapor Density(air=1): >1
Specific Gravity: 0.818 @ 25°C (77°F)
Evaporation Rate: <1 (Butyl Acetate=1)

Stability:	Stable
Solubility in Water:	Insoluble
Color:	Colorless, transparent
Odor:	Odorless

Section X: REACTIVITY DATA

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

Section XI: STORAGE & HANDLING

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

Section XII: TOXICOLOGICAL INFORMATION

Skin Irritation

Essentially nonirritating to skin. Causes drying of skin.

Eye Irritation

May cause transitional or slight eye irritation

Skin Sensitization Potential

No evidence of sensitization or allergic potential

Acute Toxicity

LD50 (Oral/Rat): >5g/kg (estimated by similar Dimethylpolysiloxane)
LC50 (Inhalation/Rat): >5g/m³/Hr (estimated by similar Dimethylsiloxane)

Subacute Toxicity

Does of high concentration may develop increased organ weight in small animals.

Chronic Toxicity

No information is available

Component Toxicology Information

This material contains octamethyltrisiloxane (L3) which was evaluated in a combined repeated-dose toxicity study that included reproductive/developmental toxicity screening in Sprague-Dawley rats by whole-body vapor inhalation. An increase in protoporphyrin was observed only in males and only at high doses: 1600 ppm (6/10) and 3200 (9/10). This condition (hepatic porphyria) is characterized by an abnormal increase of pigments (porphyrins) in the body. Without knowledge of the specific mechanism leading to protoporphyrinosis following exposure to L3, the relevance of this finding to humans is unknown.

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: REGULATORY INFORMATION

Contents of this MDS 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:	Yes
Chronic:	No
Fire:	Yes
Pressure:	No
Reactive:	No

Section 313 Toxic Chemical (40 CFR 372): 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 XV: OTHER INFORMATION

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believe to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.