

Material Safety Data Sheet
PSF-0.65cSt Silicone Damping Fluid



Data Prepared: October 15th, 2014

SECTION I: PRODUCT INFORMATION

Product Name: **PSF-0.65cSt Silicone Damping Fluid**
Product Code: PSF-0.65cSt

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

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

HMIS Profile: Health: 1 Flammability: 3 Reactivity: 0

SECTION II: INGREDIENT INFORMATION

<u>INGREDIENT</u>	<u>CAS#</u>	<u>%WT.</u>
Hexamethyldisiloxane	107-46-0	>60

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: Slightly irritating to respiratory passages. Vapor overexposure may cause drowsiness. 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. Get medical attention if ill effects persist.

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: -1°C (30.2 °F) Method: Closed Cup

AUTOIGNITION TEMPERATURE: 352°C (665.6 °F)

FLAMMABILITY LIMITS IN AIR: Lower:1.0% Upper:38.0%

FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personal. Isolate “fuel” supply from fire. Use AFFF compatible foam, dry chemical, CO₂ or water spray (fog) to extinguish fire. Avoid spraying 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 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	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: Hexamethyldisiloxane
 Hazard Class: 3
 UN/NA Number: UN1993

Packing Group: II

Ocean Shipment (IMDG)

Proper Shipping Name: Flammable Liquids, N.O.S.
Hazard Technical Name: Hexamethyldisiloxane
Hazard Class: 3
UN/NA Number: UN1993
Packing Group: II

Air Shipment (IATA)

Proper Shipping Name: Flammable Liquids, N.O.S.
Hazard Technical Name: Hexamethyldisiloxane
Hazard Class: 3
UN/NA Number: UN1993
Packing Group: II

SECTION IX: TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Boiling Point: 100°C (212°F)
Vapor Pressure: 35mmHg (25°C)
Vapor Density (air=1): 5.6 (Hexamethyldisiloxane)
Specific Gravity: 0.760 (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: Oxidizing material can cause a reaction

Hazardous Decomposition Products:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products:
Carbon oxides and traces of incompletely burned carbon compounds, silicon dioxide, and formaldehyde.

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

Ocular Instillation-Rabbit: Almost negative

Skin Irritation

Skin-Rabbit:500mg/24Hr MILD

Skin Sensitization Potential

No significant effects were observed (Guinea pig)

Acute Toxicity

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

LC50 (Inhalation/Guinea pig): 25000ppm/ 30min

Subacute Toxicity

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

Chronic Toxicity

No information is available

Component Toxicology Information

A 2-year combined chronic/carcinogenicity study was conducted on Hexamethyldisiloxane in Fischer 344 rats. A dose of Leydig cell tumors was observed at the end of the year. Nearly 100% of the male rats in the control and treated groups had Leydig cell tumors at the end of two years, which is expected in this strain of rat. The early onset of Leydig may have little or no relevance to humans. At the end of 2-years, there was also an increase in kidney tumors at the two highest exposure concentration (1,600 and 5,000 ppm), which is considered rat-specific. The lack of relevance to these findings supports the use of Hexamethyldisiloxane in its intended applications.

Carcinogenicity

NTP: Not Listed, IARC: Not Listed, OSHA REGULATED: Not Listed

Mutagenicity

No evidence of mutagenicity

SECTION XIII: ECOLOGICAL INFORMATION

Biodegradation:

No evidence of biodegradation

Bioaccumulation:

May cause bioaccumulation.

Aquatic Toxicity:

NOEL (Fathead minnow): 200-900 ppb

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.

Call Clearco Products Co Inc, (215) 639-2640, if additional is required.

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:	Yes
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 known**

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.

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