

# Safety Data Sheet

## PSF-1cSt Silicone Fluid



Data Prepared: January 19, 2015

### 1. Product and company identification

**Product Name:** PSF-1cSt  
**Material Uses:** Industrial applications: Manufacture of cosmetics, Manufacture of personal care products.

**Provided by:** CLEARCO PRODUCTS CO. INC.,  
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**This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.**  
**Date of issue:** 2015-01-16

### 2. Hazards identification

Physical state : Liquid  
Odor: : Odorless  
OSHA/HCS status : This material is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Emergency overview : WARNING!  
FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE.

#### Over-exposure signs/symptoms

Inhalation : No specific data  
Ingestion : No specific data  
Skin : No specific data  
Eyes : No specific data  
Medical conditions : None known.  
aggravated by  
over-exposure

See toxicological information (Section 11)

### 3. Composition/information on ingredients

Name	CAS number	%
octomethyltrisiloxane	107-51-7	60-100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting this section.

### 4. First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## 5. Fire-fighting measures

Flammability of the product	: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of subsequent explosion. Runoff to sewer may create fire or explosion hazard.
<u>Extinguishing media</u>	
Suitable	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Not suitable	: Do not use water jet.
In case of fire	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operating in positive pressure mode.

## 6. Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<u>Methods for cleaning up</u>	
Small Spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via licensed waste disposal contractor.
Large Spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergent contact information and Section 13 for waste disposal.

## 7. Handling and storage

Handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	: Store in accordance with local regulations. Store in segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

Recommended monitoring: procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Engineering measures	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and use the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<u>Personal protection</u>	
Respiratory	: Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates that is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted the times to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side shields.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

Physical state : Liquid.  
 Flash Point : Closed cup: 38°C (100.4°F)  
 Auto ignition temperature : Lowest known value: 340°C (644°F) (octamethyltrisiloxane)  
 Color : Colorless.  
 Odor : Odorless.  
 Boiling/condensation point : 153°C (307.4°F)  
 Vapor pressure : 0.5 kPa (4 mm Hg) (at 20°C)  
 Density : 0.818 g/cm<sub>3</sub> (25°C (77°F))  
 Evaporation rate : >1  
 Solubility(ies) : Insoluble in the following materials: cold water, hot water.

## 10. Stability and reactivity

Chemical stability : The product is stable  
 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.  
 Materials to avoid : Reactive or incompatible with the following materials:  
 oxidizing materials  
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.  
 Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Test	Species	Result	Dose
Octamethyltrisiloxane	OECD 403 Acute Inhalation Toxicity	Rat-Male, Female	LC50 Inhalation Vapor	36 mg/l
	OECD 402 Acute Dermal Toxicity	Rat-Male, Female	LD50 Dermal	>2500 mg/kg
	OECD 401 Acute Oral Toxicity	Rat-Male	LD50 Oral	>4800 mg/kg

### Irritation/Corrosion

Product/ingredient name	Test	Species	Result
Octamethyltrisiloxane	EPA OPPTS 870.2500 Acute Dermal Irritation	Rabbit	Skin-Erythema/Eschar 0

### Sensitizer

Product/ingredient name	Test	Species	Result
Octamethyltrisiloxane	OECS 406 Skin Sensitization	Guinea pig	Not sensitizing

## 12. Ecological information

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Incoulum
octamethyltrisiloxane	OECD 310 Ready Biodegradability-CO <sub>2</sub> in Sealed Vessels (Headspace Test)	0% -Not readily-28 days	-	-




## 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listed may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION for additional handling information and protection of employees

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	UN1993	Flammable liquids, n.o.s. (octamethyltrisiloxane)	3	III		<b>Limited quantity</b> Yes.  <b>Packaging instruction</b> <b>Passenger aircraft</b> Quantity limitation: 60 L  <b>Cargo aircraft</b> Quantity limitation: 220 L  <b>Special provisions</b> B1, B52, IB3n T4,TP1, TP29
<b>IMDG Class</b>	UN1993	Flammable LIQUID, N.O.S. (octamethyltrisiloxane)	3	III		<b>Emergency schedules (EmS)</b> F-E, _S-E_
<b>IATA-DGR Class</b>	UN1993	Flammable LIQUID, N.O.S. (octamethyltrisiloxane)	3	III		

PG\*: Packing group

Flash point

: Closed cup: 38°C (100.4°F)

## 15. Regulatory information

HCS Classification : Combustible liquid  
 U.S. Federal regulations : **TSCA 8(a) PAIR:** octamethyltrisiloxane,  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted  
**TSCA 8(d) H and S data reporting:** octamethyltrisiloxane,  
**SARA 302/304:** No products were found.  
**SARA 311/312 Hazards identification:** Fire hazard

Clear Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA Lit II Chemicals (Essential Chemicals) : Not listed

### State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

### California Prop 65

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product is not known to the State of California to cause cancer.

### International lists

United States inventory (TSCA 8b) : All components are listed or exempted

Canada inventory : At least one component is not listed in DSL but all such components are listed in NDSL.

Australia inventory (AICS) : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted.

EU Inventory : All components are listed or exempted.

Japan inventory (ENCS) : All components are listed or exempted.

Korea inventory (KECI) : All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC) : All components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted.

## 16. Other Information

Hazardous Material:  
 Information System (U.S.A.)

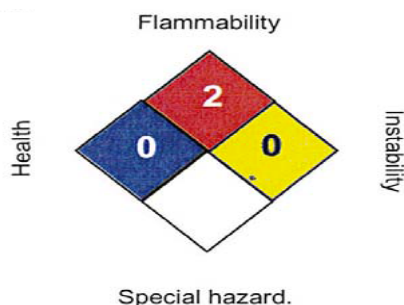
<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Caution: HMIS® ratings are based on a 0-4 scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-68-68.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.