

SAFETY DATA SHEET

PSF-2cSt Dielectric Silicone Fluid



Data Prepared: July 21, 2025

SECTION 1: Identification

Product name : PSF-2cSt Dielectric Silicone Fluid
Product code : PSF-2cSt

Manufacturer or supplier details

Company name of supplier : Clearco Products Co Inc.

Address : 15 York Road
Willow Grove, PA 19090 U.S.A.

Telephone : 215-366-7860

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

Recommended use of the chemical and restrictions on use

Recommended use : Cleaning/washing agents and additives
Solvent
Process regulators, other than polymerization or vulcanization processes
Cosmetics
Intermediate

SECTION 2: Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance : FLAMMABLE LIQUIDS-Category 4
GHS label statements
Signal word : Warning
Hazard statements : H227-Combustible liquid
Precautionary statements
Prevention : P280- Wear protective gloves. Wear eye or face protection
P210- Keep away from flames and hot surfaces- No smoking.
Response : Not applicable
Storage : P235-Keep cool
Disposal : P501- Dispose of contents and container in accordance with local, regional, national and international regulations.
Hazards not otherwise Classified : None known

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture	: Substance	
Ingredient name	%	CAS number
Dodecamethylpentasiloxane	60-100	141-63-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or wristband.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential acute health effects

Eye contact : No known significant effects or critical hazards
Inhalation : No known significant effects or critical hazards
Skin contact : No known significant effects or critical hazards
Ingestion : No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact : No specific data
Inhalation : No specific data
Skin contact : No specific data
Ingestion : No specific data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically, contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam

Unsuitable extinguishing media : Do not use water jet.

Specific hazards during firefighting : Combustible 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.

Hazardous combustion products : Decomposition products may include the following materials:
Carbon dioxide
Carbon monoxide
Metal oxide/oxides

Special protective actions for fire-fighters : 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.

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.

Flash point : Closed cup: 88°C (190.4°F)

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : 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.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."

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).

Methods for containment and cleaning up

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.

SECTION 7: Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). 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 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 only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general Occupational hygiene : 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage Including any Incompatibilities : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). 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.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

- Appropriate engineering controls : 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.
- 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.

Individual protection measures

- Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using 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.
- Eye/face protection : 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, gases 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 protection

- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical product 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 that the time 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.
- Body protection : 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.
- Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection : Use properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this 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.

SECTION 9: Physical and chemical properties

Appearance	: liquid
Colour	: colorless
Odour	: odorless
Odour Threshold	: Not available
pH	: Not available
Melting point/freezing point	: Not available
Boiling point	: Lowest known value: 230 °C (446°F) (dodecamethylpentasiloxane)
Flash point	: Closed cup: 88 °C (190.4°F)
Evaporation rate	: Not available
Flammability (solid, gas)	: Not available
Upper explosion limit	: Not available
Lower explosion limit	: Not available
Vapor pressure	: highest known value: <0.1 kPa (<1 mm Hg) (at 20°C)
Vapour density	: Not available
Relative density	: 0.872
Specific gravity	: Not available
Solubility(ies)	: Not available
Water solubility	: Not available
Partition coefficient: n-octanol/water	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: >150°C (>302°F)
Viscosity	: Not available

SECTION 10: Stability and reactivity

Reactivity	: No specific test data to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
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.

Incompatible materials : 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.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not available

Potential chronic health effects

Not available

Irritation/Corrosion

Not available

Sensitization

Not available

Mutagenicity

Not available

Carcinogenicity

Not classified or listed by IARC, OSHA, EU and ACGIH

Reproductive toxicity

Not available

Teratogenicity

Not available

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

SECTION 12: Ecological information

Toxicity

Not available

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Dodecamethylpentasiloxane	-	-	Not readily

Bioaccumulative potential

Not available

SECTION 13: Disposal considerations

The generation of waster should be avoided r minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste legislation and any regional local authority requirements. Dispose of surplus and non-recycled products via a licensed waste disposal contractor. Waster should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waster packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	DOT Classification	IMDG	IATA
UN number	NA1993	Not regulated	Not regulated
UN proper shipping name	Combustible liquid, n.o.s. dodecamethylpentasiloxane	-	-
Transport hazard class(es)	Combustible liquid 	-	-
Packing group	III	-	-
Environmental hazards	No	No	No
Additional information	<p>Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials</p> <p><u>Limited quantity</u> Yes</p> <p><u>Packaging instruction</u> Passenger aircraft Quantity limitation: 60L</p> <p>Cargo Aircraft Quantity limitation: 220 L</p> <p><u>Special provisions</u> IB3, T4, TP1</p>		

Special precautions for user : Transport with user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

US Federal regulations : TSCA 8(d) H and S data reporting: dodecamethylpentasiloxane
United States inventory TSCA 8b): All components are listed or exempted.

SARA 302/304**Composition/information on ingredients**

No products were found

SARA 311/312

Classification : Fire hazard

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Dodecamethylpentasiloxane	60-100	Yes	No	No	No	No

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, birth defects or other reproductive harm.

International lists**National inventory**

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

Canada inventory : 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) : Not determined

New Zealand Inventory of : All components are listed or exempted.

Chemicals (NZIoC)

Philippines inventory : All components are listed or exempted.

(PICCS)

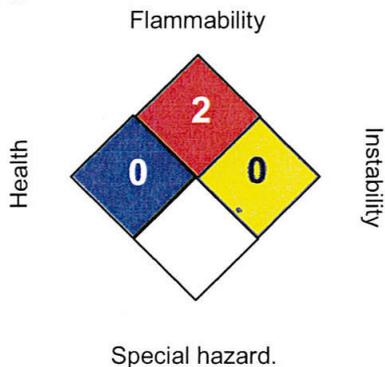
Korea inventory (KECI) : All components are listed or exempted.

Taiwan inventory (TCSI) : All components are listed or exempted.

SECTION 16: Other information

Further Information

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	2
PHYSICAL HAZARD	0

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

Classification according to Directive 67/548/EEC [DSD] or Classification according to Directive 1999/45/EC [DPD]

Risk phrases : This product is not classified according to EU legislation.

Safety phrases : Not applicable

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw materials SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.edu/>

Revision Date :01/07/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.