

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

CAS Number: Proprietary - Silicone 12500 cst
Product Name: Silicone Fluid 12500 cst
Revision Date: Jul 08, 2021 **Date Printed:** Jul 20, 2021
Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: Thames River Chemical Corp.
Address: 5230 Harvester Road Burlington, ON, CA, L7L 4X4
Emergency Phone: CHEMTREC (800) 424-9300
Information Phone Number: 905-681-5353
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Product/Recommended Uses: For laboratory or industrial use only.

SECTION 2) HAZARDS IDENTIFICATION

Classification

Not a hazardous substance or mixture according to GHS (Globally Harmonized System).

Acute toxicity of 100% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
Proprietary	POLYDIMETHYLSILOXANE	100% - 100%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality or to reflect batch to batch variation.

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

Eye Contact

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation

Skin Contact

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

Ingestion

Give several small portions of water to drink. Do not induce vomiting. If you feel unwell/If concerned: Get medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Any relevant information can be found in other parts of this section

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand

Unsuitable Extinguishing Media

Do not use water jet.

Specific Hazards in Case of Fire

Not applicable.

Fire-fighting Procedures

Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Do not touch or walk through spilled material. Ventilate closed spaces before entering.

Recommended Equipment

See section 8 for specifics on protective personal equipment (PPE).

Personal Precautions

If material is released indicate risk of slipping. Do not walk through spilled material.

Environmental Precautions

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

SECTION 7) HANDLING AND STORAGE

General

Spilled substance increases risk of slipping. Liquid silicone based materials have lubricating properties that can substantially reduce or eliminate traction and may pose a slip hazard. Please use warning labels on consumer products where traction is essential for safety. Avoid contact with skin, eye or clothing. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Use good personal hygiene practices. Wash hands after use.

Ventilation Requirements

Report ventilation failures immediately. Use only with adequate ventilation to control air contaminants to their exposure limits.

Storage Room Requirements

Keep container tightly closed. Store in a dry and cool place.

Maximum temperature allowed during storage and transportation: 50 °C

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear eye protection with side shields or goggles.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Density	0.97 g/cm ³
Specific Gravity	0.97
Appearance	Colourless liquid
Odor Description	Odourless
Odor Threshold	N/A
pH	approx. 7
Melting/Freezing Point	-50 - -35 °C
Low Boiling Point	N/A
High Boiling Point	N/A
Flash Point	344 °C
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A
Upper Explosion Level	N/A
Lower Explosion Level	N/A
Water Solubility	virtually insoluble at 20 C
Coefficient Water/Oil	N/A
Viscosity	12500 mPa.s at 25 C

SECTION 10) STABILITY AND REACTIVITY

Reactivity

The product is stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Stability

Stable under normal storage and handling conditions.

Conditions to Avoid

None known

Hazardous Reactions/Polymerization

No data available.

Incompatible Materials

Not known

Hazardous Decomposition Products

If stored and handled properly: none known . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation

SECTION 11) TOXICOLOGICAL INFORMATION**Acute Toxicity**

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure.

Toxicity:

Oral (rat): LD50: >5000 mg/kg

Dermal(rat): LD50:>2008 mg/kg

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

Aspiration Hazard

No data available.

Carcinogenicity

No data available.

Germ Cell Mutagenicity

Based on known data a significant mutagenic potential may be excluded.

Mutation assay(in vitro): Bacterial cells - Negative - OECD 471

Reproductive Toxicity

No data available.

Respiratory/Skin Sensitization

Guinea-pig (Magnusson-Kligmann): Dermal - Not sensitizing

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation

Rabbit: Not Irritating

Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation

Rabbit: Not Irritating

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Specific Target Organ Toxicity - Single Exposure

No data available.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Mobility in Soil

Insoluble in water. Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

Bioaccumulative Potential

This material is not expected to bioaccumulate.

Persistence and Degradability

Biologically not degradable. Absorbed by floating particles. Separation by sedimentation. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws.

SECTION 14) TRANSPORT INFORMATION

	Transport Canada Information	U.S. DOT Information	IMDG Information	IATA Information
UN number:	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Proper shipping name:	N/A	N/A	N/A	N/A
Hazard class:	Not Applicable			
Hazard class:		Not Applicable	Not Applicable	Not Applicable
Packaging group:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Hazardous substance (RQ):	No Data Available	No Data Available		
Marine Pollutant:	No Data Available	No Data Available	No Data Available	
Note / Special Provision:	No Data Available	No Data Available	No Data Available	No Data Available
Toxic-Inhalation Hazard:	No Data Available	No Data Available		

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
Proprietary	POLYDIMETHYLSILOXANE	100% - 100%	EU_EINECS - European_EC_Inventory_EINECS,K R_KECI - Korean Existing Chemicals Inventory

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL - Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

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