

Silicone Transformer Oil, 50 cSt (PDMS Dielectric Fluid)

Safety Data Sheet · complies with OSHA HazCom 2012 (29 CFR 1910.1200) / GHS · CAS 63148-62-9

§1 IDENTIFICATION

Product Name	Silicone Transformer Oil, 50 cSt (PDMS Dielectric Fluid)
Common Name	Silicone Fluid
Recommended Use	Electrical insulating / dielectric coolant and heat-transfer fluid for transformers and electrical equipment
Restrictions on Use	Industrial and professional use only
Manufacturer / Supplier	
Company	RawSource Inc.
Address	515 E Las Olas Blvd, Suite 1301, Fort Lauderdale, FL 33301, USA
Telephone	+1 (754) 306-4363
Email / Web	solutions@rawsource.com · rawsource.com
Emergency Telephone	+1 (754) 306-4363 (business hours) — for a chemical emergency also contact your national poison / emergency service

§2 HAZARD(S) IDENTIFICATION

GHS Hazard Classification	None — not a hazardous substance or mixture
Signal Word	None
Hazard Statement(s)	None
Pictogram(s)	None

Precautionary statement(s)

P234 : Keep only in original container.

P280 : Wear protective gloves / protective clothing / eye protection / face protection.

P301 + P330 + P331 + P313 : IF SWALLOWED — Rinse mouth. Do NOT induce vomiting. Get medical advice / attention.

P302 + P352 + P313 : IF ON SKIN — Wash with plenty of water. Get medical advice / attention.

P304 + P340 + P313 : IF INHALED — Remove person to fresh air and keep comfortable for breathing. Get medical advice / attention.

P305 + P351 + P338 + P313 : IF IN EYES — Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. Get medical advice / attention.

P370 + P378 : In case of fire — use alcohol-resistant foam or CO2 to extinguish.

P403 + P410 : Store in a well-ventilated place. Protect from sunlight.

P501 : Dispose of contents / container to authorized waste-disposal agencies in accordance with local / regional / national / international regulations.

Other Hazards No data available. Not classified as PBT or vPvB.

§3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	Polydimethylsiloxane
CAS No.	63148-62-9 (also reported as 9006-65-9)
Chemical Nature	Siloxanes and silicones, dimethyl
Concentration	≈ 100%

§4 FIRST-AID MEASURES

If inhaled

Move the person to fresh air. Consult a physician if any symptoms occur.

In case of skin contact

Flush with water, then wash with soap and water. Consult a physician if any symptoms occur.

In case of eye contact

Flush eyes with flowing water for 15 minutes. Consult a physician if any symptoms occur.

If swallowed

Never induce vomiting. Drink water to dilute the ingested material. Consult a physician if any symptoms occur.

Most important symptoms or effects, acute or delayed

None known.

§5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam, CO2

Unsuitable Extinguishing Media

Acids, alkalis and dry chemicals

Specific hazards arising from the chemical

Combustion may produce organic acid vapor, carbon oxides, silicon dioxide, and traces of incompletely burned carbon compounds and formaldehyde at high temperature or in flames.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and protective clothing should be worn when fighting large fires involving chemicals. Avoid skin / eye contact; do not breathe fumes. Prevent fire-control run-off from entering streams or drinking-water supply.

§6 ACCIDENTAL RELEASE MEASURES

Personal precautions and protective equipment

Use personal protective equipment.

Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleanup

Absorb with an inert absorbent (sand, sawdust). Scrape up and place in an appropriate closed container. Do not flush to drain.

§7 HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition.

Conditions for safe storage, including incompatibilities

Keep in a properly labeled, closed container. Keep cool. Protect from sunlight. Do not store with strong oxidizing agents.

§8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Contains no substances with occupational exposure-limit values.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands after work. Ensure adequate ventilation, especially in confined areas.

Eye Protection

Tightly fitting safety goggles

Hand Protection

Use gloves; dispose of contaminated gloves

Skin Protection

Wear suitable protective clothing; wash skin after contact

Respiratory Protection

Use of a safety mask during handling

§9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Colourless
Odour	Characteristic
Viscosity @ 25 °C	≈ 50 cSt
Solubility	Soluble in toluene; insoluble in water
Flash Point	> 93 °C — not classified as a flammable liquid (GHS)

§10 STABILITY AND REACTIVITY

Reactivity	Oxidizing material can cause a reaction
Chemical Stability	Stable under normal conditions
Possibility of Hazardous Reactions	Hazardous polymerization does not occur
Conditions to Avoid	Exposure to moisture, heat, open flames and other sources of ignition
Incompatible Materials	Oxidizing agents, strong bases (alkali) and isocyanates

Hazardous decomposition products

Thermal decomposition may yield organic acid vapor, carbon oxides, silicon dioxide, and traces of incompletely burned carbon compounds and formaldehyde at high temperature or in flames.

§11 TOXICOLOGICAL INFORMATION

Acute Toxicity	No data available
Skin Corrosion / Irritation	No data available
Serious Eye Damage / Irritation	No data available
Respiratory or Skin Sensitization	No data available
Carcinogenicity	No data available

§12 ECOLOGICAL INFORMATION

No data available.

§13 DISPOSAL CONSIDERATIONS

Incinerate in a furnace where permitted under national and local regulations. Follow all chemical pollution-control regulations. Consult state and local regulations regarding the proper disposal of this material.

§14 TRANSPORT INFORMATION

UN RTDG	Not regulated for transport
IATA-DGR (Air)	Not regulated for transport
IMDG Code (Sea)	Not regulated for transport

§15 REGULATORY INFORMATION

United States TSCA Inventory	All components of this product are in compliance with the inventory listing requirements of the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
------------------------------	--

§16 OTHER INFORMATION

NFPA Rating	Health 0 · Flammability 1 · Instability 0
-------------	---

Prepared and issued by RawSource Inc. This SDS supersedes any prior version for this material.

This Safety Data Sheet is provided in good faith and is correct to the best of RawSource's knowledge at the date of publication. It is a guidance for safe handling, use, processing, storage, transport, disposal and release, and is not a warranty or quality specification. It relates only to the specific material identified above. Users must determine the conditions of safe use in their own context.