

Material Safety Data Sheet (MSDS)

Product Name: Silicone Oil 1000 Visco City (CST)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

Product Name: Silicone Oil 1000 CST

Chemical Name: Polydimethylsiloxane (PDMS)

CAS No.: 63148-62-9

Synonyms: Dimethyl Silicone Fluid, PDMS 1000 CST

Molecular Formula: $(C_2H_6OSi)_n$

Viscosity: 1000 Centistokes (CST)

Use: Used in cosmetics, lubricants, pharmaceuticals, defoamers, and various industrial applications.

2. Hazard Identification

Classification: Not classified as hazardous according to GHS.

Physical State: Clear, colorless liquid.

Routes of Exposure: Eye and skin contact, inhalation of mist.

Hazard Statements:

- Non-toxic and non-flammable under normal conditions.
- Prolonged or repeated contact may cause mild skin irritation.

Precautionary Statements:

- Avoid eye contact.
- Use with adequate ventilation.
- Store in tightly closed containers.

3. Composition / Information on Ingredients

Chemical Identity: Polydimethylsiloxane

CAS Number: 63148-62-9

Concentration: >99%

4. First Aid Measures

- **Eye Contact:** Rinse thoroughly with water for several minutes. Seek medical attention if irritation persists.
- **Skin Contact:** Wash affected areas with soap and water.
- **Inhalation:** Move to fresh air if mist is inhaled.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if discomfort occurs.

5. Fire-Fighting Measures

Extinguishing Media: Foam, dry powder, CO₂, or water spray.

Fire/Explosion Hazards: May produce formaldehyde vapors when heated above 150°C.

Protective Equipment: Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Avoid slipping; wear protective gloves.

Environmental Precautions: Prevent entry into drains or watercourses.

Cleanup Methods: Absorb with inert material (sand or earth) and collect in appropriate containers for disposal.

7. Handling and Storage

Handling: Avoid eye contact and prolonged skin exposure.

Storage: Store in a cool, dry, well-ventilated area away from heat and direct sunlight.

Packaging Materials: Suitable for stainless steel or HDPE containers.

8. Exposure Controls / Personal Protection

Exposure Limits: Not established.

Engineering Controls: Use adequate ventilation.

Personal Protective Equipment:

- **Eye Protection:** Safety glasses or goggles.
 - **Skin Protection:** Protective gloves.
 - **Respiratory Protection:** Not required under normal conditions.
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9. Physical and Chemical Properties

Silicone Oil 1000 CST is a clear, colorless, and odorless liquid with a smooth texture. It has a viscosity of approximately 1000 centistokes (CST) and a density of about 0.97 g/cm³ at 25°C. The product has a high boiling point greater than 200°C and a flash point above 300°C, indicating excellent thermal stability. It remains stable and fluid across a wide temperature range and exhibits neutral pH behavior. The product is insoluble in water but miscible with various organic solvents. Its auto-ignition temperature is typically above 400°C, and it does not readily evaporate or emit vapors at room temperature.

10. Stability and Reactivity

Stability: Stable under normal storage and handling conditions.

Reactivity: Inert to most chemicals.

Conditions to Avoid: Excessive heat and strong oxidizing agents.

Hazardous Decomposition Products: May release formaldehyde upon thermal decomposition.

11. Toxicological Information

Acute Toxicity: Non-toxic.

Skin Irritation: Mild, non-corrosive.

Eye Irritation: May cause transient irritation.

Inhalation: Negligible hazard under normal conditions.

Chronic Effects: No known long-term adverse effects.

12. Ecological Information

Ecotoxicity: Not harmful to aquatic or terrestrial environments.

Persistence and Degradability: Slowly biodegradable.

Bioaccumulation: Low potential.

Mobility in Soil: Low due to high viscosity.

13. Disposal Considerations

Dispose of contents and containers in accordance with local, regional, and national regulations.

Recycle containers if possible, otherwise dispose of them as non-hazardous waste.

14. Transport Information (Detailed Information)

UN Number: Not applicable.

UN Proper Shipping Name: Not regulated as a hazardous material.

Transport Hazard Class: Non-hazardous.

Packing Group: Not applicable.

Environmental Hazards: Not classified as a marine pollutant.

Transport by Road (ADR/RID):

Silicone Oil 1000 CST is not regulated as hazardous under road transport rules. Containers should remain tightly sealed to prevent leakage during transit. The product should be kept away from strong oxidizers and stored upright during movement.

Transport by Sea (IMDG):

Not classified as dangerous goods under IMDG regulations. It is recommended to store containers below deck and away from direct sunlight and sources of heat. Use corrosion-resistant or HDPE containers to avoid spillage.

Transport by Air (IATA/ICAO):

Not hazardous for air transport. Packaging should be leak-proof and able to withstand pressure variation.

Special Precautions:

Avoid transporting with reactive chemicals or oxidizing substances. In the event of a spill, absorb with inert material and place in labeled containers for safe disposal.

Regulatory Notes:

This material complies with UN model regulations and is not subject to international transport restrictions

15. Regulatory Information

Regulatory Status: Complies with REACH, TSCA, and other global chemical inventory requirements.

Hazard Symbols: None required.

Risk Phrases: None.

Safety Phrases: Keep container closed and away from heat and oxidizing materials.

16. Other Information

Training Advice: Personnel handling this product should be trained in proper chemical hygiene and safety practices.

References: Manufacturer's internal data, ECHA database, and GHS documentation.

Disclaimer:

Information provided is based on current knowledge and believed to be accurate as of the revision date. However, Raw Pharma Biz assumes no responsibility for any misuse or mishandling of this material.

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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.