

## SAFETY DATA SHEET (SDS)

### Silicone Oil (Polydimethylsiloxane, PDMS)

**Brand:** Silico®

#### 1. Identification of the Substance and Company

Product Name: Silicone Oil

Chemical Name: Polydimethylsiloxane (PDMS)

CAS Numbers: 63148-62-9 / 9016-00-6 / 9006-65-9

Recommended Use: Industrial lubrication, heat transfer, electrical insulation, damping fluids, mold release agents

Manufacturer: Silico®

Emergency Contact: Available upon request

#### 2. Hazard Identification

Classification: Not classified as hazardous according to GHS standards.

Label Elements: No hazard pictograms required.

Other Hazards: Slippery if spilled.

#### 3. Composition / Information on Ingredients

Substance: Polydimethylsiloxane

Purity:  $\geq 99\%$

Impurities: No hazardous impurities present.

#### 4. First-Aid Measures

Inhalation: Move to fresh air if discomfort occurs.

Skin Contact: Wash with soap and water.

Eye Contact: Rinse cautiously with water for several minutes.

Ingestion: Rinse mouth; do not induce vomiting.

## **5. Fire-Fighting Measures**

Suitable Extinguishing Media: Dry chemical, foam, CO.

Special Hazards: Combustion may produce silicon dioxide and carbon oxides.

Protective Equipment: Standard fire-fighting protective gear.

## **6. Accidental Release Measures**

Personal Precautions: Avoid slipping hazards.

Environmental Precautions: Prevent entry into waterways.

Cleanup Methods: Absorb with inert material and collect for disposal.

## **7. Handling and Storage**

Handling: Use good industrial hygiene practices.

Storage: Store in tightly closed containers at ambient temperature.

## **8. Exposure Controls / Personal Protection**

Exposure Limits: No occupational exposure limits established.

Personal Protection: Safety glasses and gloves recommended.

## **9. Physical and Chemical Properties**

Appearance: Clear, colorless liquid

Odor: Odorless

Viscosity: Available in multiple grades

Flash Point: >300°C (typical)

Solubility: Insoluble in water

## 10. Stability and Reactivity

Stability: Stable under normal conditions.

Reactivity: No dangerous reactions known.

Incompatible Materials: Strong oxidizing agents.

## 11. Toxicological Information

Acute Toxicity: Low toxicity.

Skin Irritation: Not irritating.

Eye Irritation: May cause mild irritation.

## 12. Ecological Information

Ecotoxicity: Not expected to be harmful to aquatic life.

Persistence and Degradability: Not readily biodegradable.

## 13. Disposal Considerations

Dispose of in accordance with local regulations.

Do not discharge into drains or surface waters.

## 14. Transport Information

UN Number: Not regulated

Transport Hazard Class: Not applicable

## 15. Regulatory Information

This product complies with applicable chemical safety regulations.

## 16. Other Information

The information provided is based on current knowledge and is intended for guidance only.