

Silico® MF2020-10 cSt Silicone Fluid

SAFETY DATA SHEET (SDS)

SECTION 1: Identification

Product Name: Silico® MF2020-10 Silicone Fluid
Chemical Name: Polydimethylsiloxane (PDMS)
CAS Number: 63148-62-9
Synonyms: Dimethyl Silicone Oil, Linear Silicone Fluid
Viscosity Grade: 10 cSt @ 25°C

Supplier Information

Company: Silico® Silicone / Daiyue Industrial Area, Taian, Shandong, China
Email: info@silicorex.com
Emergency Contact: +86-0538-5071566
Website: www.silicorex.com

Recommended Uses:

Industrial-grade low viscosity PDMS silicone oil for lubrication, release coating, heat transfer, dielectric insulation, textile treatment, and as a carrier fluid in specialty formulations.

Uses Advised Against:

Not intended for food, pharmaceutical, cosmetic, or medical applications without regulatory approval.

SECTION 2: Hazard Identification

Classification (GHS / CLP / OSHA HCS):

This product is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP), GHS, or OSHA 29 CFR 1910.1200.

Label Elements:

No hazard pictograms required
No signal word required

Other Hazards:

- Spilled material presents a slip hazard.
- Not identified as PBT or vPvB substance.

SECTION 3: Composition / Information on Ingredients

| | |
|---------------|------------------------|
| Component | Polydimethylsiloxane |
| CAS No. | 9006-65-9 / 63148-62-9 |
| Concentration | ≥ 99% |

Contains no hazardous impurities at reportable concentrations.

SECTION 4: First Aid Measures

Inhalation:

Move to fresh air. Seek medical attention if discomfort persists.

Skin Contact:

Wash with soap and water. Remove contaminated clothing.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical advice if irritation continues.

Ingestion:

Rinse mouth. Do not induce vomiting. Obtain medical advice if symptoms develop.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Foam, dry chemical powder, CO₂ , water spray.

Specific Hazards:

Thermal decomposition may produce carbon oxides (CO, CO₂) and silicon oxides.

Protective Equipment:

Self-contained breathing apparatus (SCBA) and full protective gear recommended.

SECTION 6: Accidental Release Measures

Personal Precautions:

Wear protective gloves and safety goggles. Avoid direct contact.

Environmental Precautions:

Prevent entry into drains and watercourses.

Cleanup Methods:

Absorb with inert material (sand, earth, vermiculite). Transfer to suitable containers for disposal.

SECTION 7: Handling and Storage

Handling:

Use good industrial hygiene practices. Avoid mist formation and prolonged contact.

Storage:

Store in tightly sealed containers in a cool, dry, well-ventilated area.

Recommended storage temperature: below 40°C.

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits:

No specific occupational exposure limits established for PDMS silicone fluids.

Engineering Controls:

General ventilation is adequate.

Personal Protective Equipment (PPE):

- Eye Protection: Safety glasses
- Hand Protection: Chemical-resistant gloves
- Skin Protection: Protective work clothing
- Respiratory Protection: Not normally required under typical industrial conditions

SECTION 9: Physical and Chemical Properties

| Property | Typical Value |
|---------------------|------------------------------|
| Appearance | Clear, colorless liquid |
| Odor | Odorless |
| Viscosity (25°C) | 10 cSt |
| Density (25°C) | ~0.93–0.94 g/cm ³ |
| Refractive Index | ~1.402–1.404 |
| Flash Point | >150°C |
| Solubility in Water | Insoluble |
| Vapor Pressure | Negligible |
| Surface Tension | Low |

Values are typical and not intended as product specifications.

SECTION 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Excessive heat, strong oxidizers.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides, silicon oxides under combustion.

SECTION 11: Toxicological Information

Low acute toxicity based on available data for PDMS silicone oils.

- Skin Irritation: Not expected
- Eye Irritation: Minimal mechanical irritation possible
- Sensitization: Not classified
- Carcinogenicity: Not classified

No known significant health effects under normal industrial use.

SECTION 12: Ecological Information

- Ecotoxicity: Low aquatic toxicity expected
- Persistence: Not readily biodegradable
- Bioaccumulation: Not expected due to high molecular weight
- Mobility: Insoluble in water; binds to soil particles

Avoid uncontrolled environmental release.

SECTION 13: Disposal Considerations

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

SECTION 14: Transport Information

Not classified as dangerous goods under ADR, IMDG, IATA, or DOT regulations.

SECTION 15: Regulatory Information

Complies with major chemical inventory requirements including TSCA (USA) and relevant international standards. Users should verify compliance with local regulations prior to use.

SECTION 16: Other Information

This Safety Data Sheet applies to Silico® MF2020-10 Silicone Fluid, a low viscosity PDMS silicone oil designed for industrial lubrication, release applications, dielectric fluids, and specialty chemical formulations.

Information is provided in good faith based on current knowledge and is intended for professional industrial users.