

Silico® MF2020-350FG Food Grade PDMS Silicone Fluid

SAFETY DATA SHEET (SDS)

SECTION 1: Product and Company Identification

1.1 Product Identifier

Trade Name: Silico® MF2020-350FG Food Grade PDMS Silicone Fluid

Synonyms: Food Grade Silicone Oil 350 cSt, PDMS Food Grade Fluid

Chemical Name: Polydimethylsiloxane (PDMS)

CAS No.: 9006-65-9 / 63148-62-9

Product Type: Industrial and Food Processing Silicone Fluid

1.2 Recommended Uses

- Antifoaming agent for food processing
- Lubrication and release fluids for food contact equipment
- Heat transfer and damping fluids in food industry applications
- General-purpose food processing aid where PDMS is permitted by regulatory standards

Uses Not Recommended

- Not for direct consumption

Not for medical implant or pharmaceutical use without specific certification

1.3 Supplier Information

Company: Silico® Silicone / Daiyue Industrial Area, Taian, Shandong, China

Email: info@silicorex.com

Emergency Contact: +86-0538-5071566

Website: www.silicorex.com

SECTION 2: Hazard Identification

Classification

- Not classified as hazardous according to EC 1272/2008 (CLP) and GHS criteria

Label Elements

- Signal Word: None
- Hazard Statements: Not applicable
- Precautionary Statements: Follow good industrial hygiene practices

Other Hazards

No additional hazards under normal food industry conditions

SECTION 3: Composition/Information on Ingredients

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

- No hazardous ingredients above regulatory disclosure thresholds
- Free from heavy metals and restricted substances in food applications

SECTION 4: First Aid Measures

General Advice

Seek medical attention if discomfort occurs; provide SDS to medical personnel

Inhalation

Move to fresh air. Seek medical advice if symptoms persist

Skin Contact

Wash thoroughly with soap and water; remove contaminated clothing

Eye Contact

Rinse cautiously with water for at least 10 minutes

Ingestion

Rinse mouth with water. Do not induce vomiting. Seek medical advice if necessary

SECTION 5: Firefighting Measures

- Extinguishing Media: Water mist, foam, dry chemical, CO₂
- Unsuitable Media: Direct water jet
- Specific Hazards: Thermal decomposition may generate carbon oxides and silicon oxides
- Protective Equipment: Self-contained breathing apparatus and full protective clothing

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear PPE; product is slippery
- Environmental Precautions: Prevent release to drains, surface water, or soil
- Cleanup Methods: Absorb with inert material; collect and dispose of according to regulations

SECTION 7: Handling and Storage

Handling: Avoid aerosol formation; use in well-ventilated areas

Storage: Store in sealed containers in a cool, dry area, away from heat and oxidizers

SECTION 8: Exposure Controls / Personal Protection

- Engineering Controls: Local exhaust or adequate general ventilation
- Eye Protection: Safety goggles
- Hand Protection: Chemical-resistant gloves
- Respiratory Protection: Not normally required
- Hygiene: Wash hands before breaks and after handling; do not eat, drink, or smoke in work areas

SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Clear, colorless liquid
Odor	Odorless
pH	Neutral
Melting/Freezing Point	< -50 °C
Boiling Point	> 200 °C
Flash Point	> 315 °C
Vapor Pressure	Negligible
Density (25 °C)	~0.97 g/cm ³
Water Solubility	Insoluble
Viscosity (25 °C)	~350 cSt
Autoignition Temp	~350 °C

Stable, food grade PDMS silicone fluid suitable for regulated food processing and contact equipment applications

SECTION 10: Stability and Reactivity

- Stability: Stable under recommended storage and handling
- Conditions to Avoid: Excessive heat, open flames
- Incompatible Materials: Strong oxidizing agents
- Hazardous Decomposition Products: Carbon oxides and silicon oxides

SECTION 11: Toxicological Information

- Acute Toxicity: High LD50; not expected to present acute toxicity
- Skin/Eye Irritation: Minimal; not classified as irritant
- Sensitization: Not a sensitizer
- Chronic Effects: Not classified as carcinogenic, mutagenic, or reproductive toxicant

SECTION 12: Ecological Information

- Aquatic Toxicity: Low at typical environmental concentrations
- Persistence/Degradability: Not readily biodegradable
- Bioaccumulation Potential: Low
- Mobility: Insoluble in water; adsorbs to soil and sediment

SECTION 13: Disposal Considerations

- Dispose in compliance with local, regional, and national regulations
- Avoid environmental discharge

SECTION 14: Transport Information

- Not classified as dangerous goods under ADR, IMDG, IATA, or RID

SECTION 15: Regulatory Information

- Complies with REACH, CLP, GHS
- Food contact applications must comply with applicable local food safety regulations

SECTION 16: Other Information

- SDS prepared based on current knowledge and applicable regulations
- Intended for safe handling, storage, and food processing compliance