

# Silico® PC19816 Phenyl Silicone Fluid

## SAFETY DATA SHEET (SDS)

### SECTION 1: Identification of the Substance and the Company

#### Product Identifier

Product Name: Silico® PC19816  
Chemical Name: Silsesquioxanes, phenyl trimethylsilyloxy-terminated  
CAS Number: 70131-69-0  
EC Number: 939-487-8

Silico® PC19816 is a phenyl-modified silicone fluid designed for use in cosmetic and specialty industrial formulations. This high-refractive-index silicone polymer provides enhanced gloss, improved compatibility with organic ingredients, and excellent film-forming performance.

#### Recommended Uses

- Silico® PC19816 is widely used as a cosmetic silicone polymer and specialty functional fluid in:
  - Skin care creams and lotions
  - Hair care conditioners and styling formulations
  - Sunscreen emulsions and cosmetic dispersions
  - Makeup formulations and fragrance carriers
  - Specialty personal care and beauty formulations
- Phenyl-modified silicone fluids such as Silico® PC19816 improve:
  - optical clarity and gloss
  - compatibility with organic oils
  - water resistance
  - sensory smoothness and spreadability

#### Uses advised against:

Applications not specifically recommended by the manufacturer.

#### Uses Not Recommended

- Food, pharmaceutical, or medical applications unless specifically approved

#### Supplier Information:

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

### SECTION 2: Hazard Identification

## Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute Toxicity – Inhalation  
Category 2  
Hazard Statement  
**H330 – Fatal if inhaled.**

### Label Elements

Hazard Pictogram



Signal Word

**DANGER**

Hazard Statements

H330 Fatal if inhaled.

### Precautionary Statements

P260 Do not breathe vapor, mist, or spray.

P271 Use only outdoors or in a well-ventilated area.

P284 Wear appropriate respiratory protection where ventilation is insufficient.

P304 + P340 + P310

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or physician.

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

P501

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

### Other Hazards

No additional hazards identified under normal conditions of use.

## SECTION 3: Composition / Information on Ingredients

Substance Type: Phenyl Silicone Polymer

Component	CAS Number	EC Number	Concentration
Phenyl-modified silicone polymer	70131-69-0	939-487-8	100%

Classification: Acute Tox. 2 – H330.

## SECTION 4: First Aid Measures

### General Advice

If exposure occurs or symptoms persist, seek medical attention and provide this safety data sheet to medical personnel.

### Inhalation

Remove exposed individual to fresh air immediately.  
If breathing difficulties occur, seek medical assistance without delay.

### Skin Contact

Wash affected area thoroughly with soap and water.  
Remove contaminated clothing if necessary.

### Eye Contact

Rinse cautiously with plenty of water for several minutes.  
Remove contact lenses if present and easy to do.

### Ingestion

Rinse mouth with water.  
Medical attention is recommended if discomfort occurs.

## SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media

- Water spray
- Dry chemical powder
- Foam
- Carbon dioxide (CO<sub>2</sub>)

### Specific Hazards Arising from the Chemical

Thermal decomposition may generate hazardous gases including:

- Carbon oxides (CO, CO<sub>2</sub>)
- Silicon oxides

#### **Advice for Firefighters**

- Firefighters should wear:
- self-contained breathing apparatus (SCBA)
- full protective equipment

## **SECTION 6: Accidental Release Measures**

### **Personal Precautions**

Avoid inhalation of vapor or mist.  
Avoid contact with eyes and skin.

### **Environmental Precautions**

Prevent release into drains, surface water, or soil.

### **Methods for Containment and Cleaning**

- Absorb spilled material with inert absorbents such as:
- sand
- vermiculite
- diatomaceous earth

Collect into suitable containers for proper disposal.

## **SECTION 7: Handling and Storage**

### **Precautions for Safe Handling**

Avoid breathing vapors or aerosols.  
Ensure adequate ventilation during handling and processing.

### **Conditions for Safe Storage**

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

Recommended storage temperature:

**5°C – 30°C**

**Protect from:**

- excessive heat
- direct sunlight
- strong oxidizing agents

## SECTION 8: Exposure Controls / Personal Protection

### Engineering Controls

Provide adequate ventilation or local exhaust systems where necessary.

### Personal Protective Equipment (PPE)

**Eye Protection**

Safety goggles or chemical splash glasses.

**Hand Protection**

Chemical-resistant protective gloves.

**Respiratory Protection**

Use approved respiratory protection where ventilation is insufficient.

## SECTION 9: Physical and Chemical Properties

Appearance: Colorless to slightly yellow transparent liquid

Odor: Mild characteristic odor

Property	Value
Refractive Index (25°C)	1.4549 – 1.4626
Density (25°C)	0.970 – 0.990 g/cm <sup>3</sup>
Viscosity (25°C)	15 – 30 cSt
Flash Point	> 200°C
Solubility	Insoluble in water, soluble in organic solvents

Phenyl-modified silicone fluids such as Silico® PC19816 exhibit excellent compatibility with:

- ethanol
- hydrocarbon oils
- cosmetic emollients

These properties make them suitable for high-performance cosmetic formulations and specialty silicone applications.

## SECTION 10: Stability and Reactivity

### Reactivity

Stable under recommended storage and handling conditions.

### Conditions to Avoid

- excessive heat
- strong oxidizing agents

### Hazardous Decomposition Products

- carbon oxides
- silicon oxides

## SECTION 11: Toxicological Information

### Acute Toxicity

Inhalation toxicity classified as Category 2.

### Skin Irritation

Not expected to cause significant irritation under normal conditions.

### Eye Irritation

May cause mild irritation upon direct contact.

### Sensitization

No data available.

## SECTION 12: Ecological Information

### Ecotoxicity

No significant aquatic toxicity reported.

### Persistence and Degradability

Silicone polymers degrade slowly under environmental conditions.

### Bioaccumulation Potential

Low bioaccumulation potential expected.

## SECTION 13: Disposal Considerations

Dispose of product and packaging materials in accordance with applicable environmental regulations.

Avoid uncontrolled release into the environment.

## SECTION 14: Transport Information

Not classified as dangerous goods for transport under:

- ADR
- IMDG
- IATA

## SECTION 15: Regulatory Information

This safety data sheet is prepared in accordance with:

REACH Regulation (EC) No. 1907/2006

Globally Harmonized System (GHS) for Classification and Labelling of Chemicals

## SECTION 16: Other Information

Full Hazard Statements

H330 – Fatal if inhaled.

The information provided in this Safety Data Sheet is based on current knowledge and experience regarding Silico® PC19816 phenyl silicone fluid and is intended to describe the product for purposes of health, safety, and environmental requirements.

This document does not constitute a guarantee of product properties and should be used solely as guidance for safe handling, storage, transport, and disposal.