

**SAFETY DATA SHEET**

Revision Date: 03/17/20

**Section 1: Identification****PRODUCT AND COMPANY INFORMATION**

**Product Name:** Polydimethylsiloxane      **Molecular Formula:**  $C_8H_{24}O_2Si_3$

**Catalog Number(s):** 1003

**Company:** Scientific Polymer Products, Inc.  
6265 Dean Parkway  
Ontario, NY 14519

**Telephone:** 585/265-0413  
**Fax:** 585/265-1390  
**Website:** www.scipoly.com

**Emergency Phone Number:** 800-255-3924 (CHEM TEL)

**Section 2: Hazards Identification****Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**  
Flammable liquids, Category 3, H226

**GHS Label elements, including precautionary statements**

Pictogram



Signal word      Warning

Hazard statement(s)  
H226      Flammable liquid and vapor.

Precautionary statement(s)

P210      Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233      Keep container tightly closed.

P240      Ground/bond container and receiving equipment.

P241      Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242      Use only non-sparking tools.

P243      Take precautionary measures against static discharge.

P280      Wear protective gloves/eye protection/ face protection.

P303+P361+P353      IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P403+P235      Store in a well ventilated place. Keep cool.

P501      Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS- None**

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

### Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Polydimethylsiloxane	107-51-7	100

### Section 4: First Aid Measures

#### Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Rinse thoroughly with plenty of water. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution.

##### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

##### Indication of any immediate medical attention and special treatment needed

No data available

### Section 5: Fire-Fighting Measures

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Carbon oxides, silicon oxides, formaldehyde

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

Use water spray to cool unopened containers.

### Section 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local/state regulations.

**Reference to other sections**  
For disposal see section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to the build-up of electrostatic charge. For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Specific end use(s)

Laboratory chemicals, Manufacture of substances

## Section 8: Exposure Controls/Personal Protection

### Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Face shield. Safety glasses conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

- |    |                |                   |
|----|----------------|-------------------|
| a) | Appearance     | Form: Liquid      |
| b) | Odor           | Odorless          |
| c) | Odor Threshold | No data available |

d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	Insoluble
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

#### **Other safety information**

No data available

### **Section 10: Stability and Reactivity**

#### **Reactivity**

No data available.

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Conditions to avoid**

Heat, flames and sparks.

#### **Incompatible materials**

Strong oxidizing agents

#### **Hazardous decomposition products**

No data available.

In the event of fire: see section 5

### **Section 11: Toxicological Information**

#### **Information on toxicological effects**

##### **Acute toxicity**

LD50 Oral- Rat- >2,000 mg/kg  
(OECD Test Guideline 423)

Inhalation: No data available

LD50 Dermal- Rat- male and female- > 2,000 mg/kg  
(OECD Test Guideline 402)

##### **Skin corrosion/irritation**

Skin- Rabbit

Result: No skin irritation

##### **Serious eye damage/eye irritation**

No data available

##### **Respiratory or skin sensitization**

Guinea pig

Result: Did not cause sensitization on laboratory animals.  
(OECD Test Guideline 406)

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Section 12: Ecological Information****Toxicity**

Toxicity to fish	LC50- Oncorhynchus mykiss (Rainbow trout)- >0.0194 mg/l- 96 h (OECD Test Guideline 203) Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	EC50- Daphnia magna (Water flea)- >0.020 mg/l- 48 h (OECD Test Guideline 202) Remarks: No toxicity at the limit of solubility
Toxicity to algae	EC50-Pseudokirchneriella subcapitata (Green algae)- >0.0094 mg/l 72 h (OECD Test Guideline 201) Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	NOEC (Oncorhynchus mykiss (Rainbow trout)- >0.027 mg/l (OECD Test Guideline 210) Remarks: Based on test data No toxicity at the limit of solubility
Toxicity to daphnia and other Aquatic invertebrates (Chronic Toxicity)	NOEC (Daphnia sp.)- >0.15 mg/l Exposure time: 21 d (OECD Test Guideline 211) Remarks: No toxicity at the limit of solubility
<b>Persistence and degradability</b>	
Biodegradability	Result: 0%- Not biodegradable (OECD Test Guideline 310)

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

**Section 13: Disposal Considerations****Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**Section 14: Transport Information****DOT (US)**

UN number: 1993                      Class: 3                      Packing group: III  
Proper shipping name: Flammable liquid, n.o.s. (Polydimethylsiloxane)  
Poison Inhalation Hazard: No

**IMDG**

UN number: 1993                      Class: 3                      Packing group: III  
Proper shipping name: Flammable liquid, n.o.s. (Polydimethylsiloxane)

**IATA**

UN number: 1993                      Class: 3                      Packing group: III  
Proper shipping name: Flammable liquid, n.o.s. (Polydimethylsiloxane)

**Section 15: Regulatory Information****SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Polydimethylsiloxane	CAS-No. 107-51-7
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**New Jersey Right To Know Components**

Polydimethylsiloxane	CAS-No. 107-51-7
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**California Prop. 65 Components**

Polydimethylsiloxane

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Section 16: Other Information

**HMIS Rating**

Health:	0
Flammability:	3
Reactivity:	0

**NFPA Rating**

Health:	0
Flammability:	3
Reactivity:	0

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.