

# SAFETY DATA SHEET

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## Polydimethylsiloxane Hydroxyl-terminated

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name	Silanol Terminated Polydimethylsiloxane/OH polymer
Synonyms, trade names	

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Used for the production of various kinds of organic silicon compounds.
Uses advised against	No information available

#### 1.3 Details of the supplier of the safety data sheet

##### 1.3.1 Details of the Manufacturer

Name	Qingdao Hengda New Material Technology Co., Ltd.
Address	Qingdao International Innovation Park, Qingdao, China.
Postal code	266101
Telephone	+86-0532-66750551
Fax	+86-0532-66750552
E-mail	Info@hengdasilane.com

#### 1.4 Emergency telephone

Emergency telephone	+86-0532-66750551
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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of substance or mixture according to Regulation (EC) 1272/2008 [CLP]

The substance is not classified according to the CLP regulation.

#### 2.2 Label elements according to Regulation (EC) 1272/2008 [CLP]

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Name	CAS Number	EINECS number	Purity (%)
Polydimethylsiloxane hydroxy-terminated	70131-67-8	615-070-3	≥98%

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

<b>General advice</b>	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately..
<b>Skin contact</b>	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
<b>Ingestion</b>	Do not induce vomiting without medical advice. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar tie belt or waistband. Do not use mouth -to- mouth method if victim ingested the substance. Seek immediate medical attention
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention

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

May be harmful if swallowed.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

<b>Suitable</b>	Foam, CO <sub>2</sub> , dry chemical powder.
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## 5.2 Special hazards arising from the substances or mixture

Can be released in case of fire:  
Carbon oxides, SiO<sub>2</sub>

## 5.3 Advice for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

# 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Remove all sources of ignition. Ventilate closed spaces before entering. Keep unnecessary personnel away..

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal in suitable container. Clean contaminated surface thoroughly.

## 6.4 Reference to other sections

Section 7 (safe handling), Section 8 (protective equipment), section 13 (disposal instructions)

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid contact with skin eyes, mucous membranes and clothing.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry well-ventilated place.

Keep tightly closed until used.

Store away from incompatible substances such as strong oxidizing agents and strong bases.

## 7.3 Special end use(s)

No information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure limit values

Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH TLV-STEL
Polydimethylsiloxane hydroxy-terminated	70131-67-8	-	-		

### 8.2 Appropriate engineering controls

Use adequate ventilation to keep airborne concentrations low.

Do not get this material in contact with skin. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

Symbols of personal protective equipment	
<b>Hand protection</b>	Chemical resistant gloves.
<b>Eye protection</b>	Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.
<b>Hygiene measures</b>	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
<b>Skin protection</b>	Safety shoes, Protective suit
<b>Respiratory</b>	Respirator with an ABEK filter; at high concentration use respiratory protection with independent air supply.
<b>Thermal hazard</b>	No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid
<b>Color</b>	Colorless
<b>Odour</b>	Colorless
<b>pH</b>	No information available
<b>Melting/freezing point</b>	No information available
<b>Initial boiling point and boiling range</b>	No information available
<b>Flash point</b>	closed cup >100 °C ( 212 °F)

<b>Evaporation rate</b>	No information available
<b>Flammability</b>	Non-flammable
<b>Lower and upper explosion limit/flammability limit</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Vapour density(air=1)</b>	No information available
<b>Density(water=1)</b>	0.975g/ml at 25 °C(lit.)
<b>Bulk density</b>	No information available
<b>Solubility(water)</b>	No information available
<b>Partition coefficient n-octanol/water</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Explosive properties</b>	No explosive properties
<b>Oxidising properties</b>	No oxidising properties

## 10. STABILITY AND REACTIVITY

### 10.1 Reactive

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

No information available

### 10.5 Incompatible materials

Oxidizing agents

### 10.6 Hazardous decomposition products

CO<sub>2</sub>, SiO<sub>2</sub>

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Acute oral toxicity	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. For this family of materials: Estimated. LD50, Rat, > 5,000 mg/kg
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Acute dermal toxicity	Prolonged skin contact is unlikely to result in absorption of harmful amounts. For this family of materials: Estimated. LD50, > 2,000 mg/kg
Acute inhalation toxicity	Brief exposure (minutes) is not likely to cause adverse effects. As product: The LC50 has not been determined.

**Other**

Skin corrosion/irritation	Prolonged contact is essentially nonirritating to skin.
Serious eye damage/irritation	May cause slight temporary eye irritation. Corneal injury is unlikely. May cause mild eye discomfort.
Skin sensitisation	For skin sensitization: Contains component(s) which did not cause allergic skin sensitization in guinea pigs. For respiratory sensitization: No relevant information found
Specific Target Organ Systemic Toxicity (Single Exposure)	Evaluation of available data suggests that this material is not an STOT-SE toxicant.
Specific Target Organ Systemic Toxicity (Repeated Exposure)	Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
Carcinogenicity	For this family of materials: Did not cause cancer in long-term animal studies which used routes of exposure considered relevant to industrial handling. Positive results have been reported in other studies using routes of exposure not relevant to industrial handling.
Teratogenicity	For this family of materials: Did not cause birth defects or any other fetal effects in laboratory animals.
Reproductive toxicity	For this family of materials: In animal studies, did not interfere with reproduction.
Mutagenicity	For this family of materials: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.
Aspiration Hazard	Based on physical properties, not likely to be an aspiration hazard.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Component	Aquatic invertebrates	Chronic toxicity to aquatic invertebrates
Polydimethylsiloxane hydroxy-terminated	Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). EC50, Daphnia magna (Water flea), 48 Hour, 493 mg/l, OECD Test Guideline 202	NOEC, Daphnia magna (Water flea), 21 d, 2,320 mg/l

**Toxicity to Above Ground Organisms**

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).

### 12.2 Persistence and degradability

Biodegradability: Chemical degradation (hydrolysis) is expected in the environment.

### 12.3 Bioaccumulative potential

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.63 Measured

Bioconcentration factor (BCF): < 5.8 Cyprinus carpio (Carp) Measured

### 12.4 Mobility in soil

Potential for mobility in soil is high (Koc between 50 and 150).

Partition coefficient (Koc): 130 Estimated.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Contact a licensed professional waste disposal service to dispose of this material.

Dispose of in accordance with local environmental regulations or local authority requirements.

## 14. TRANSPORT INFORMATION

<b>UN Number</b>	No information available
<b>UN proper shipping name</b>	No information available
<b>Classification code</b>	Not dangerous goods
<b>Packing group</b>	Not dangerous goods
<b>Subsidiary risk</b>	Not dangerous goods le
<b>Air transport (ICAO/IATA)</b>	
<b>UN Number</b>	No information available
<b>UN proper shipping name</b>	No information available
<b>Transport hazard class(es)</b>	No information available
<b>Packing group</b>	No information available
<b>Classification code</b>	No information available
<b>Environmental hazards</b>	No information available

## 15. REGULATORY INFORMATION

<b>EINECS</b>	Not listed
<b>OSHA</b>	Not listed
<b>TSCA</b>	Not listed
<b>DSL/NDSL</b>	Not listed
<b>HMIS(Hazardous)</b>	Health: 2

<b>Material</b>	Flammability: 1 Physical hazard: 0 Personal protection: X (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1 Slight Hazard; 0. Minimal Hazard)
<b>WHMIS(Canadian Workplace hazardous Material Identification System Ratings):</b>	Not listed

## 16. OTHER INFORMATION

<b>Issued By</b>	Qingdao Hengda New Material Technology Co., Ltd.
<b>Revision Date</b>	2023/08/17
<b>Reason for modification</b>	-

### STATEMENT

This safety technical specification (SDS) is prepared according to Regulation (EC) No 1907/2006 and Regulation (EU) No 2020/878. The data collected are from authoritative international databases and provided by enterprises themselves. Other information is based on our current state of knowledge. We try to make sure all the information is correct. However, due to the diversity of information sources and the limitations of our knowledge, this document is for user reference only. Users should make independent judgments about the suitability of this information for their specific purposes. We are not liable for any loss, damage or expense arising from or in connection with the handling, storage, use or disposal of the Products.

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