

# SAFETY DATA SHEET

According to 1907/2006/EC, article 31 (REACH) and Regulation (EU) No. 2020/878

Creation date: 20230822

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SDS No: 2023082201

Version: 2.0

## Diphenylsiloxane-Dimethylsiloxane Copolymer

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

#### 1.1 Product identifier

Product name	Diphenylsiloxane-Dimethylsiloxane Copolymer
Product Code	HENGDA-FP550

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

Relevant identified uses	Silicone Rubber
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]

Hazardous to the aquatic environment– Chronic Hazard, Category – H412  
For the full text of the H-Statements mentioned in this Section, see Section 16.

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

Pictogram(s)	-
Signal word	-

#### | Hazard statements

H412 Harmful to aquatic life with long lasting effects.

#### | Precautionary statements

P273 Avoid release to the environment.  
P501 Dispose of contents/ container to hazardous or special waste collection point, in accordance with local, regional, national and /or international regulation.

#### Supplemental Hazard information (EU)

Not applicable.

#### 2.3 Other hazards

No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance type:** Polymer

**Name:** DIPHENYLSILOXANE-DIMETHYLSILOXANE COPOLYMER

**CAS No.:** 68083-14-7

**EC No.:** 614-272-9

CASRN	Concentration	Component	Classification
68083-14-7	> 95	Polydimethyldiphenylsiloxane	Not classified
556-67-2	< 2	Octamethylcyclotetrasiloxane	Flam. Liq. 3, H226 Repr. 1, H361f Aquatic Chronic 1, H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

<b>General advice</b>	Remove contaminated clothing and shoes. in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet: if not available show packaging or label.
<b>Eye contact</b>	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses. If present and easy to do. Continue rinsing. Get medical advice/attention.
<b>Skin contact</b>	Wash off immediately with plenty of water.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Inhalation</b>	Move person to fresh air and keep comfortable for breathing; consult a physician.

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

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

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

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE-FIGHTING MEASURES

**5.1 Extinguishing media**

<b>Suitable</b>	Water spray. Water fog. Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical.
<b>Unsuitable</b>	None known.

**5.2 Special hazards arising from the substances or mixture**

**Fire Hazards:** Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

**5.3 Advice for firefighters**

**Fire Fighting Procedures:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

**Special protective equipment for firefighters:** Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Only trained personnel should re-enter the area. Follow safe handling advice and personal protective equipment recommendations.

**6.2 Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

**6.3 Methods and materials for containment and cleaning up**

Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.

**6.4 Reference to other sections**

See Section 8. Exposure controls and personal protection

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Precautions for safe handling

Avoid all eye and skin contact and do not breathe vapour and mist. Spillage of this material may create a slippery condition for foot or vehicle traffic.

Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.

**7.3 Special end use(s)**

No information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No additional information available

### 8.2 Appropriate engineering controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation. If operating at temperatures above 175°C, ventilation is required. Mechanical is recommended

#### Personal protective equipment:

Avoid a unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Hand protection:

Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles. Contact lenses should not be worn

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Color</b>	Clear Liquid
<b>Odour</b>	None
<b>Odour threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting/freezing point</b>	<-60°C
<b>Initial boiling point and boiling range</b>	>205 °C
<b>Flash point</b>	280 °C (closed cup)
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	Ignitable (see flash point)
<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>	0.98 g/cm <sup>3</sup> (25 °C)
<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>	484°C
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	100 cSt at 25 °C
<b>Explosive properties</b>	No explosive properties
<b>Oxidising properties</b>	The substance or mixture is not classified as oxidizing.
<b>Molecular mass:</b>	No information available

### 9.2 Other information

**9.2.1. Information with regard to physical hazard classes**

No information available.

**9.2.2. Other safety characteristics**

No information available.

## 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**

At temperatures greater than 300°C trace amounts of benzene and formaldehyde may form.

**10.4 Conditions to avoid**

Heat. Open flame. Sparks.

**10.5 Incompatible materials**

Oxidizing agents.

**10.6 Hazardous decomposition products**

Organic acid vapors. Silicon dioxide.

## 11. TOXICOLOGICAL INFORMATION

No information available.

## 12. ECOLOGICAL INFORMATION

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Product/Packaging disposal recommendations:**

Incinerate. Dispose in a safe manner in accordance with local/national regulations.

**Ecology - waste materials:**

Avoid release to the environment.

## 14. TRANSPORT INFORMATION

**Land transport (ADR/RID)**

<b>UN Number</b>	Not regulated for transport
<b>UN proper shipping name</b>	Not regulated for transport
<b>Transport hazard class(es)</b>	Not regulated for transport
<b>Packing group</b>	Not regulated for transport
<b>Classification code</b>	Not regulated for transport
<b>Marine transport (IMDG)</b>	
<b>UN Number</b>	Not regulated for transport
<b>UN proper shipping name</b>	Not regulated for transport
<b>Transport hazard class(es)</b>	Not regulated for transport
<b>Packing group</b>	Not regulated for transport
<b>EMS No.</b>	Not regulated for transport
<b>Remarks</b>	Not regulated for transport
<b>Air transport (ICAO/IATA)</b>	
<b>UN Number</b>	Not regulated for transport
<b>UN proper shipping name</b>	Not regulated for transport
<b>Transport hazard class(es)</b>	Not regulated for transport
<b>Packing group</b>	Not regulated for transport
<b>Classification code</b>	Not regulated for transport
<b>Environmental hazards</b>	Not regulated for transport
<b>Special precautions for user</b>	Not regulated for transport

## 15. REGULATORY INFORMATION

Classification and labeling have been performed according to regulations.

## 16. OTHER INFORMATION

<b>Issued By</b>	Qingdao Hengda New Material Technology Co., Ltd.
<b>Revision Date</b>	2024/01/02
<b>Reason for modification</b>	-

### REFERENCE

- [1] IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- [2] HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- [3] IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- [4] eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: <https://www.echemportal.org/echemportal/substance-search>
- [5] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- [6] US National Institutes of Health: Pubchem, website: <https://pubchem.ncbi.nlm.nih.gov/>
- [7] ChemIDplus, website: <https://www.nlm.nih.gov/databases/download/chemidplus.html>
- [8] ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- [9] Germany GESTIS-database on hazard substance, website: <https://gestis-database.dguv.de/>
- [10] ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

### ABBREVIATIONS AND ACRONYMS

CAS: Chemical Abstracts Service

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC<sub>50</sub>: Lethal Concentration 50%

LD<sub>50</sub>: Lethal Dose 50%

EC<sub>50</sub>: Effective Concentration 50%

#### 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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