

# SAFETY DATA SHEET

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

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Version: 1.0

## Hexamethyldisiloxane

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

#### 1.1 Product identifier

Product name	<a href="#">Hexamethyldisiloxane</a>
Synonyms, trade names	HENGDA-FM0.65

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

Relevant identified uses	For industrial use, Manufacture of substances
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]

Acute Tox. - Oral 4, H302

Skin Corr. 1B, H314

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

Pictogram(s)	
Signal word	Danger

**Hazard statements**

H302 Harmful if swallowed  
 H314 Causes severe skin burns and eye damage

**Precautionary statements****Prevention**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304 + P340 If INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P321 Specific treatment (see on this label).  
 P330 Rinse mouth.  
 P363 Wash contaminated clothing before reuse.

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container to in accordance with local/regional/ national/international regulations (to be specified).

**Supplemental Hazard information (EU)**

Not applicable.

**2.3 Other hazards**

Criteria for the assessment of substances as PBT and vPvB in Annex XIII to Regulation EC No 1907/2006 (REACH): See Section 12. All the substance is not listed in Annex XIV to Regulation EC No 1907/2006 (REACH) or in the candidate list of SVHC. They has no properties affecting the endocrine system.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substance**

Name	Product designation	Content (weight percentage, %)	Classification according to Regulation (EC) 1272/2008 [CLP]
Hexamethyldisiloxane	CAS nr: 107-46-0 EC nr: 203-492-7	99%	Acute Tox. - Oral 4, H302 Skin Corr. 1B, H314

**3.2 Mixture**

Not applicable.

**4. FIRST-AID MEASURES****4.1 Description of first aid measures**

**General advice** First aid is usually required. Please show this SDS to the physician arriving at the scene.

<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
<b>Skin contact</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Wash contaminated clothing before reuse.
<b>Ingestion</b>	If conscious, drink plenty of water. Do not induce vomiting. Obtain medical attention immediately.
<b>Inhalation</b>	Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Obtain medical attention immediately.

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

Harmful if swallowed. Causes severe skin burns and eye damage.

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

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable</b>	Alcohol-resistant foam, carbon dioxide, dry chemical.
<b>Unsuitable</b>	Water.

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), silicon oxides.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus and protective suit.

Keep away from open flames, hot surfaces and sources of ignition.

Do not direct a solid stream of water or foam into hot, burning pools: this may cause frothing and increase fire intensity.

Cool closed containers exposed to fire with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

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

**6.1.1 For non-emergency personnel:** Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment. Use only in well-ventilated areas.

**6.1.2 For emergency responders:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Special danger of slipping by leaking/spilling product. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapor/spray.

### 6.2 Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 6.3 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 regulations. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Section 8 (protective equipment), section 13 (disposal instructions).

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Do not swallow. Do not get into eyes, on skin, on clothing.  
 Avoid breathing vapour, aerosol and mist. Use with adequate ventilation.  
 Wash hands before breaks and immediately after handling the product.  
 Ensure all equipment is electrically grounded before beginning transfer operations.

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

Store in cool place. 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.  
 Store under inert gas. Moisture sensitive.

### 7.3 Special end use(s)

No information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters


#### Occupational Exposure limit values

Component	Country	Occupational exposure limits	
		Eight hours	Short term
Hexamethyldisiloxane	Finland	No information available. <sup>3</sup>	No information available.

### 8.2 Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Eyewash stations.

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

Symbols of personal protective equipment	
	
<b>Hand protection</b>	Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
<b>Eye protection</b>	Wear safety glasses and chemical goggles if splashing is possible.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practices. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Do not breathe in vapors or aerosols. Avoid contact with skin and eyes.
<b>Skin protection</b>	Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory</b>	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.
<b>Thermal hazard</b>	No information available.

### 8.4 Restrictions environmental exposure

Local authorities should be advised if significant spillages cannot be contained.

## PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### 9.2 Other information

<b>Appearance</b>	Liquid
<b>Color</b>	Colorless
<b>Odour</b>	No information available
<b>Odour threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting/freezing point</b>	- 59 °C
<b>Initial boiling point and boiling range</b>	100 °C
<b>Flash point</b>	- 2 °C (closed cup)
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	Flammable
<b>Lower and upper explosion limit/flammability limit</b>	No information available
<b>Vapour pressure(KPa)</b>	43hpa at 20 °C
<b>Vapour density(air=1)</b>	5.5
<b>Density(water=1)</b>	0.76 g/cm <sup>3</sup> at 20 °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>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	No explosive properties
<b>Oxidising properties</b>	No oxidising properties
<b>Molecular mass:</b>	162.38 g/mol

#### 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

Reaction with water, strong oxidising agents.

### 10.2 Chemical stability

May decompose on exposure to moist air or water.  
Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Reacts with: water , strong acid, strong alkali, strong oxidizing agent . Reaction causes the formation of: Carbon oxides, formaldehydel.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong acid, strong alkali, strong oxidizing agent.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), silicon oxides.

## 11. TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Component	Oral	Dermal	Inhalation
Hexamethyldisiloxane	Rat, LD <sub>50</sub> > 5000 mg/kg bw	Rabbit, LD <sub>50</sub> = 10600mg/kg bw	Rat, LC <sub>50</sub> > 2000mg/m <sup>3</sup> air (6h)

#### Carcinogenicity

Component	IARC	NTP
Hexamethyldisiloxane	Not listed	Not listed

#### Other

Endpoint	Component	Toxicological Information
Skin corrosion/irritation	Hexamethyldisiloxane	No information available
Serious eye damage/irritation	Hexamethyldisiloxane	No information available
Skin sensitisation	Hexamethyldisiloxane	No information available
Respiratory sensitization	Hexamethyldisiloxane	No information available
Reproductive toxicity	Hexamethyldisiloxane	No information available
STOT-single exposure	Hexamethyldisiloxane	No information available
STOT-repeated exposure	Hexamethyldisiloxane	No information available
Aspiration hazard	Hexamethyldisiloxane	No information available
Germ cell mutagenicity	Hexamethyldisiloxane	No information available

### 11.2 Information on other hazards

No information available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Component	Fish	Aquatic invertebrates	Aquatic algae and cyanobacteria
Hexamethyldisiloxane	Acute: Danio rerio, NOEC >= 0.46 mg/L (96h) Long term: No information available	No information available	No information available

### 12.2 Persistence and degradability

Component	
Hexamethyldisiloxane	Readily biodegradable in water

### 12.3 Bioaccumulative potential

Component	
Hexamethyldisiloxane	No information available

### 12.4 Mobility in soil

<b>Component</b>	
Hexamethyldisiloxane	No information available

**12.5 Results of PBT and vPvB assessment**

<b>Component</b>	
Hexamethyldisiloxane	No information available

**12.6 Endocrine disrupting properties**

<b>Component</b>	
Hexamethyldisiloxane	No properties affecting the endocrine system


**12.7 Other adverse effects**

Toxic to aquatic life with long lasting effects.
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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

GENERAL INFORMATION: Dispose of in a manner consistent with federal, state, and local regulations.  
 Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.  
 Contaminated packaging: Do not reuse empty containers and dispose of in accordance with the regulation issued by the appropriate local authorities. If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous.

**14. TRANSPORT INFORMATION**

<b>Transport pictograph</b>	
<b>Transport</b>	<b>Classification</b>
<b>Land transport (ADR/RID)</b>	
UN Number	UN 1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)
Transport hazard class(es)	3
Packing group	II
Classification code	
<b>Marine transport (IMDG)</b>	
UN Number	UN 1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)
Transport hazard class(es)	3
Packing group	II
EMS No.	
Remarks	
<b>Air transport (ICAO/IATA)</b>	
UN Number	UN 1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)
Transport hazard class(es)	3
Packing group	II
Classification code	No information available

<b>Environmental hazards</b>	No information available
<b>Special precautions for user</b>	No information available

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Chemical Inventory

Component	EINECS	TSCA	DSL/NDSL	IECSC	NZIoC	PICCS	KECI	AICS
Hexamethyldisiloxane	Listed	Listed	Listed/ Not listed	Listed	Listed	Listed	Listed	Listed

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### Note

<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances.
<b>TSCA</b>	United States Toxic Substances Control Act Inventory.
<b>DSL/NDSL</b>	Canadian Domestic/Non-domestic Substances List.
<b>IECSC</b>	Inventory of Existing Chemical Substances in China
<b>NZIoC</b>	New Zealand Inventory of Chemicals.
<b>PICCS</b>	Philippines Inventory of Chemicals and Chemical Substances.
<b>KECI</b>	Korea Existing Chemicals Inventory
<b>AICS</b>	Australia Inventory of Chemical Substances.

## 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>	-

### 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: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- [5] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- [6] ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- [7] ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- [8] Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- [9] 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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