SAFETY DATA SHEET

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

Creation date: 20230821 Revision date: 20230822 SDS No: 2023082107 Version: 1.0

Polydimethylsiloxane

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

1.1 Product identifier

Product name	Polydimethylsiloxane	
Synonyms, trade names	HENGDA-FM500	

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

Relevant identified uses	Industrial.
Uses advised against	No information available

1.3 Details of the supplier of the safety data sheet

1.3.1 Details of the Manufacturer

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

1.4 Emergency telephone

8 7 1	
Emergency telephone	+86-0532-66750551

2. HAZARDS IDENTIFICATION

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

Not classified.

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

Pictogram(s)	No pictogram
Signal word	No signal word

Hazard statements

No information available.



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| Precautionary statements

Prevention

No information available.

Response

No information available.

Storage

No information available.

Disposal

No information available.

Supplemental Hazard information (EU)

Not applicable.

2.3 Other hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Name	Product designation	Content (weight percentage, %)	Classification according to Regulation (EC) 1272/2008 [CLP]	Specific Concentration limits, M- Factors, Acute Toxicity Estimates (ATE)
Polydimethylsiloxane	CAS nr: 63148-62- 9 EC nr: 613-156-5	≥ 98%	Not classified.	/

3.2 Mixture

Not applicable.

4. FIRST-AID MEASURES

4.1 Description of first aid measures

Note to physicians	Treat symptomatically.		
Eye contact	Immediately flush with water		
Skin contact	No first aid should be needed		
Ingestion	Get medical attention		
Inhalation	No first aid should be needed		

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Get medical attention immediately. If swallowed, do NOT induce vomiting. Give a glass of water.



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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable	Dry chemical, foam or water spray.
Unsuitable	None established.

5.2 Special hazards arising from the substances or mixture

Silicones dioxide, carbon oxides and traces of incompletely burned carbon compounds.

5.3 Advice for firefighters

Special fire fighting procedures: Take precautionary measures against static discharges. To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid eye contact. Do not take internally.

6.2 Environmental precautions

Prevent from spreading or entering into drains or rivers.

6.3 Methods and materials for containment and cleaning up

Recovered material in appropriate container. Clean or remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to release and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

6.4 Reference to other sections

Remove sources of ignition. In case of spills, beware of slippery floors and surfaces. See Section 8 of the SDS for Personal Protective Equipment. Collect and dispose of spillage as indicated in section 13 of the SDS.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use with the adequate ventilation. Avoid eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating and smoking.

7.2 Conditions for safe storage, including any incompatibilities

Use reasonable care and store away from oxidizing materials.

7.3 Special end use(s)

No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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8.1 Control parameters

Occupational Exposure limit values

Component	Country	Occupational exposure limits		
Component		Eight hours	Short term	
Polydimethylsiloxane	-	-	-	

8.2 Appropriate engineering controls

Local Ventilation: None should be needed General Ventilation: Recommended

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

Hand protection	No special protection needed			
Eye protection	Use proper protection-safety glasses as a minimum			
Hygiene measures	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking			
Skin protection	Washing at mealtime and end of shift is adequate			
Respiratory	No respiratory protection should be needed			
Thermal hazard	No information available			

8.4 Restrictions environmental exposure

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Transparent liquid	
Color	Colorless.	
Odour	No data available	
Odour threshold	No information available	
pH	No information available	
Melting/freezing point	<-22°C	
Initial boiling point and boiling range	>65°C	
Flash point	>315℃	
Evaporation rate	No information available	
Flammability	No information available	
Lower and upper explosion limit/flammability limit	No information available	
Vapour pressure	No information available	
Vapour density(air=1)	No information available	
Density(water=1)	0.97	
Bulk density	No information available	
Solubility	Soluble in the solvent of alkane.	
Partition coefficient n-octanol/water	No information available	
Auto-ignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity (mm2/s)	450-550	
Explosive properties	No	
Oxidising properties	No	

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

None.

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

None.

10.5 Incompatible materials

Strong oxidizing material can cause a reaction.

10.6 Hazardous decomposition products

Silicone dioxide, Carbon oxides and traces of incompletely burned carbon

11. TOXICOLOGICAL INFORMATION

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

Component	Oral	Dermal	Inhalation
Polydimethylsiloxane	-	-	-

Carcinogenicity

Component	IARC	NTP
Polydimethylsiloxane	-	-

Other

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

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of in accordance with local regulations.

Contaminated packaging: D Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

Transport pictograph	No information available	
Transport	Classification	
Land transport (ADR/RID)		
UN Number	Not classified as dangerous goods	
UN proper shipping name	No information available	
Transport hazard class(es)	No information available	
Packing group	No information available	
Classification code	No information available	
Marine transport (IMDG)		
UN Number	Not classified as dangerous goods	
UN proper shipping name	No information available	
Transport hazard class(es)	No information available	



Packing group	No information available
EMS No.	No information available
Remarks	No information available
Air transport (ICAO/IATA)	
UN Number	Not classified as dangerous goods
UN proper shipping name	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Classification code	No information available
Environmental hazards	No information available
Special precautions for user	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/N DSL	IECSC	NZIoC	PICCS	KECI	AICS
Polydimethylsiloxane	-	-	-	_	-	-	-	-

15.2 Chemical Safety Assessment

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

N	ote	

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

16. OTHER INFORMATION

Issued By	Qingdao Hengda New Material Technology Co., Ltd.	
Revision Date	2023/08/22	
Reason for modification	-	

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

TWA: Time Weighted Average STEL: Short term exposure limit LC₅₀: Lethal Concentration 50%

 LD_{50} : Lethal Dose 50%

EC₅₀: 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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