

SAFETY DATA SHEET

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

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SDS No: 2023082108

Version: 1.0

Trimethoxyl terminated Polydimethylsiloxane

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

1.1 Product identifier

Product name	Trimethoxyl terminated Polydimethylsiloxane
Synonyms, trade names	HENGDA-TM 20000

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

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]

Not hazardous

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

Signal word	None
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| Hazard statements

Not hazardous

| Precautionary statements

Avoid contact with skin and eyes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.

Supplemental Hazard information (EU)

Not applicable.

2.3 Other hazards

Not applicable.

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)
Trimethoxyl terminated Polydimethylsiloxane	CAS nr: 142982-20-5	≥99.99%	/	/
Methanol	CAS nr: 67-56-1 EC nr: 200-659-6	≤0.01%	/	/

3.2 Mixture

Not applicable.

4. FIRST-AID MEASURES

4.1 Description of first aid measures

General advice	Get medical attention if irritation occurs or if breathing becomes difficult. Remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact	If contact with skin, wash skin with plenty of water or with water and soap.
Ingestion	If conscious, give several small portions of water to drink. Never give anything by mouth to an unconscious person.
Inhalation	If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

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

No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable	Water - Use Fine Spray or Fog. , alcohol-resistant foam , carbon dioxide , or dry chemical.
Unsuitable	None established.

5.2 Special hazards arising from the substances or mixture

Hazardous decomposition products: carbon dioxide , carbon monoxide, silicon dioxide.

5.3 Advice for firefighters

Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment and keep unprotected personnel away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and materials for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

6.4 Reference to other sections

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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
Trimethoxyl terminated Polydimethylsiloxane	-	-	-

8.2 Appropriate engineering controls

Use with adequate ventilation.

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

Eye/face protection	Safety glasses with side-shields 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	Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respiratory	Wear dust mask when handling large quantities.
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	Liquid (20°C/ 1,013 hPa)
Color	Colorless or light yellow
Odour	characteristic
Odour threshold	No information available
pH	No information available
Melting/freezing point	No information available
Initial boiling point and boiling range	> 100°C
Flash point	> 300°C
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)	0.98g/cm ³ (25°C)
Bulk density	No information available
Solubility	No information available
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	>450°C
Decomposition temperature	>350°C
Explosive properties	No information available
Oxidising properties	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

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Heat, open flames, and other sources of ignition.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

By hydrolysis: methanol . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

11. TOXICOLOGICAL INFORMATION

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

Component	Oral	Dermal	Inhalation
Trimethoxyl terminated Polydimethylsiloxane	-	-	-

Carcinogenicity

Component	IARC	NTP
Trimethoxyl terminated Polydimethylsiloxane	-	-

Other

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

12.2 Persistence and degradability

Elimination by adsorption to activated sludge. Biologically not degradable. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

12.3 Bioaccumulative potential

Bioaccumulation is not expected to occur.

12.4 Mobility in soil

Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

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: The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging: Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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
Trimethoxyl terminated Polydimethylsiloxane	-	-	-	-	-	-	-	-

15.2 Chemical Safety Assessment

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

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

STEL: Short term exposure limit

LC₅₀: Lethal Concentration 50%LD₅₀: 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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