

Poly(dimethylsilane)

SAFETY DATA SHEET

SDS

Yangzhou Upkind Technologies Co., Ltd.

Section 1 - Product and Company Identification

Product name	Poly(dimethylsilane)
Applicant name	Yangzhou Upkind Technologies Co., Ltd.
Application address	Lingtang Town, Gaoyou, Yangzhou City, Jiangsu Province, China
Applicant post code	225652
Applicant fax	+86-514-84239570
Applicant emergency number	+86-514-85083570
Manufacturer name	Yangzhou Upkind Technologies Co., Ltd.
Manufacturer address	Lingtang Town, Gaoyou, Yangzhou City, Jiangsu Province, China
Manufacturer post code	225652
Manufacturer fax	+86-514-84239570
Manufacturer emergency number	+86-514-85083570
Effective date	May 13, 2020

Section 2 –Hazards Identification

Hazard class and label elements of the substance according to GHS(the sixth revised edition):

GHS hazard class

Physical hazard	Flammable solid	category2
Health hazards	Serious eye damage/eye irritation	category2A
	Sensitisation, respiratory	category1
	Specific target organ toxicity, single exposure; Respiratory tract irritation	category3

Pictogram



Signal	Danger
Hazard statements	H228 Highly flammable solid

Precautionary statements

Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition
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	sources. No smoking.
	P233 Keep container tightly closed.
	P240 Ground and bond container and receiving equipment.
	P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
	P242 Use non-sparking tools.
	P243 Take action to prevent static discharges.
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 Wash thoroughly after handling.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	P284 [In case of inadequate ventilation] wear respiratory protection.
Response	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.
	P312 Call a POISON CENTER/doctor/if you feel unwell.
	P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P403+P235 Store in a well-ventilated place. Keep cool.
	P405 Store locked up.
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 – Composition/Information on Ingredients

Component	Concentration(%)	CAS No.	EC No.
Poly(dimethylsilane)	98%	30107-43-8/28883-63-8	_____

Section 4 – First Aid Measures

After skin contact	Wash off with soap and plenty of water. Consult a physician.
After eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
After inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Section 5 – Fire Fighting Measures

Hazardous products of combustion	Carbon oxides, silicon dioxide
Extinguishing method	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measure

Personal protective measures Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental protective measures Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for taking in and cleaning up Pick up and arrange disposal. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

Section 8 – Exposure Controls/Personal Protection

Engineering Controls Safety shower and eye bath. Mechanical exhaust required.

Respiratory protection Use a full-face supplied air respirator.

Eye protection Wear chemical goggles.

Hand Protection Wear impervious chemical resistant gloves.

Body protection Protective work clothing.

Section 9 – Physical and Chemical Properties

Appearance and properties: White powder	Odor: No data available
Odor threshold: No data available	pH value: No data available
Melting point/freezing point(°C): 150-250	Initial boiling point and boiling range(°C): No data available
Flash point(°C)(closed cup): 103	Evaporation Rate: No data available
Flammability: No data available	Upper explosive limit%(V/V): No data available
Lower explosive limit%(V/V): No data available	Vapor pressure(MPa): No data available
Vapor density(g/mL): No data available	Relative density(g/cm³): 0.6
Solubility: No data available	Octanol / water partition coefficient: No data available
Auto-ignition temperature(°C): No data available	Decomposition temperature(°C): No data available
Kinematic viscosity (mm²/s): No data available	

Section 10 – Stability and Reactivity

Reactive No data available

Chemical stability Stable under the condition recommended.

Possibility of hazardous reactions No data available

Avoid conditions Heat, flames and sparks.
Incompatible materials Strong oxidizing agents, Strong acids, Strong bases
Hazardous decomposition products No data available

Section 11 – Toxicological Information

Acute toxicity: Poly(dimethylsilane): LD50(rat, Oral) > 5000 mg/kg
Skin corrosion/irritation: No data available
Serious eye damage/eye irritation: No data available
Respiratory or skin sensitization: No data available.
Germ cell mutagenicity: No data available
Carcinogenicity: Poly(dimethylsilane): No data available;
Reproductive toxicity: No data available
Specific target organ toxicity – single exposure: No data available
Specific target organ toxicity – repeated exposure: No data available
Aspiration hazard: No data available

Section 12 – Ecological Information

Toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available.

Section 13 – Disposal Considerations

Property of waste: No data available
Methods of disposal: Dispose of in a manner consistent with federal, state, and local regulations.
Burning method is recommended.
Precautions of disposal: Operators must have received specialized training in explosive nature disposal.

Section 14 - Transport Information

UN number: 1325
UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S.
Transportation primary hazard class: 4.1
Transportation secondary hazard class: —
Packing group: II

Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Poly(dimethylsilane)	-	√	-	-

Note 1:

CHINA - China Inventory of Existing Chemical Substances (IECSC)

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)

ENCS - Japan Existing and New Chemical Substances (ENCS)

EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)

Note 2:

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

Section 16 - Additional Information

Other information: This Safety Data Sheet (SDS) was prepared according to UN GHS (the sixth revised edition) and the information included is based on the present state of our knowledge. However, the information is provided without any warranty, express or implied, regarding its correctness and is only for users reference. Users should make their independent judgement of suitability of these information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.