SAFETY DATA SHEETS

1. Identification

GHS Product identifier
Product name Hexamethyldisiloxane
Other means of identification
Product number -
Other names Hexamethyldisiloxane

1.1. Recommended use of the chemical and restrictions on use

Identified uses For industrial use

1.2. Supplier's details

Company Nanjing Sinfoo Technology Co., Ltd
Address Room 309, building 2, No. 40, Jiangjun Avenue, Jiangning District, Nanjing, Jiangsu, China
Telephone 86-025-85081493

1.3. Emergency phone number

Emergency phone number 008615715189096
Service hours Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

2. Hazard identification

GHS Label elements, including precautionary statements

- Symbol(GHS)
- Signal word: Danger

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/…/equipment.
P273 Avoid release to the environment.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P391 Collect spillage. Hazardous to the aquatic environment
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to an approved waste disposal plant

classification of the substance or mixture:

H 225 Highly flammable liquid and vapor
H 410 Very toxic to aquatic life with long lasting effects

Other hazards which do not result in classification

no data available

3. **Composition/information on ingr**edients

3.1. Substances

Chemical name	Common names and synonyms	CAS number
Hexamethyldisiloxane	Hexamethyldisiloxane	107-46-0

4. First-aid measures

4.1 Description of necessary first-aid measures

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. Fire-fighting measures

5. 1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5. 2 Specific hazards arising from the chemical

no data available

5. 3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours.Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof

equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7.Handling and storage

7.1 Precautions for safe handling

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

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

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. 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 protection

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state	liquid
Colour	Colorless
Melting point/ freezing point	59 °C - lit.
Boiling point or initial boiling point and boiling range	101 °C - lit
Flash point	-6 °C - closed cup
Upper/lower flammability or explosive limits	Upper explosion limit: 21,8 %(V) Lower explosion limit: 0,5 %(V)
Auto-ignition temperature	340 °C at 1.013 hPa
Decomposition temperature	no data available
pH	no data available
Solubility	no data available
Vapour pressure	44 hPa at 20 °C
Vapour density	5,61 - (Air = 1.0)
Relative density	0.764 g/cm3 at 20 °C
Water solubility	0.00093 g/l at 23 °C - slightly soluble

Partition coefficient: n-octanol/wate log Pow: >4 at 25 °C

10. Stability and reactivitys

Reactivity
No data available
Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
No data available
Conditions to avoid
Heat, flames and sparks.
Incompatible materials
Strong acids, Strong bases, Strong oxidizing agents, Oxygen
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, silicon oxides
Other decomposition products

11. Toxicological information

Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - > 5.000 mg/kg
LC50 Inhalation - Rat - 4 h - 15956 ppm (OECD Test Guideline 403)
LD50 Dermal - Rabbit - > 2.000 mg/kg (OECD Test Guideline 402)
NOAEL Oral - Rat - 160 mg/kg

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Result: negative
OECD Test Guideline 475 Rat - Bone marrow Result: negative

Carcinogenicity
No data available
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No toxicity to reproduction

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: JM9237000
Prolonged or repeated exposure to skin causes defatting and dermatitis., Dizziness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Toxicity
LD50 orally in Rabbit: > 12160 mg/kg LD50 dermal Rat > 2000 mg/kg

12. Ecological information

Toxicity
Toxicity to fish
flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - ca. 0,46 mg/l - 96 h
Toxicity to algae
EC50 - Pseudokirchneriella subcapitata (green algae) - 0,22 mg/l - 95 h
(OECD Test Guideline 201)

Persistence and degradability
Biodegradability aerobic - Exposure time 28 d
Result: 2 % - Not biodegradable (OECD Test Guideline 301C)

Bioaccumulative potential
No data available
Bioaccumulation Cyprinus carpio (Carp) - 70 d
at 25 °C(Hexamethyldisiloxane)

Bioconcentration factor (BCF): 1.100 - 2.400 (OECD Test Guideline 305C)

Mobility in soil
No data available

Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects
Very toxic to aquatic life with long lasting effects. No data available

13. Disposal considerations

Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging
Dispose of as unused product.

14. Transport information

UN number
ADR/RID: 1993 IMDG: 1993 IATA: 1993

UN proper shipping name
ADR/RID: FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane) IMDG: FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane) IATA: Flammable liquid, n.o.s. (Hexamethyldisiloxane)
Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3
Packaging group
ADR/RID: II IMDG: II IATA: II
Environmental hazards
ADR/RID: yes IMDG Marine pollutant: yes IATA: no
Special precautions for user
No data available

15 Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question
Regulations on the Safety Management of Hazardous Chemicals
China Catalog of Hazardous chemicals 2015:Listed. website: https://www.mem.gov.cn/
Measures for Environmental Management of New Chemical Substances
New Zealand Inventory of Chemicals (NZIoC):Listed. website: https://www.epa.govt.nz/
European Inventory of Existing Commercial Chemical Substances (EINECS):Listed. website: https://echa.europa.eu/
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Listed. website: https://www.mee.gov.cn/
Korea Existing Chemicals List (KECL):Listed. website: http://ncis.nier.go.kr
Philippines Inventory of Chemicals and Chemical Substances (PICCS):Listed. website: https://emb.gov.ph/
United States Toxic Substances Control Act (TSCA) Inventory:Listed. website: https://www.epa.gov/
Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/
EC Inventory:Listed.

16. Other information

Information on revision

Creation Date	July 15, 2019
Revision Date	July 15, 2019

Abbreviations and acronyms
- CAS: Chemical Abstracts Service
- ADR: European 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%

References
- IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

- HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA - European Chemicals Agency, website: https://echa.europa.eu/
