

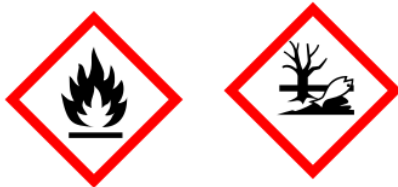
Safety Data Sheet

Hexamethyldisiloxane

Section 1 - Chemical Product and Company Identification

Product name	Hexamethyldisiloxane
Trade Name	XHG-023
Chemical Name	Hexamethyldisiloxane
Recommended use	Used for the production of various kinds of organic silicon compounds.
Manufacturer	Zhejiang Wynca Import and Export Co., Ltd
Address	Room 1504,15/f building 1, Gemini Central International,No. 1785 Jiangnan Road, Binjiang District,Hangzhou, Zhejiang ,China
Phone number	0086(0)571- 87214278
Fax Number	0086 (0)571-87215494
WEB	www.wynca.com
Emergency Phone Number	+86 571 85133197 or Call your nearest poison control center

Section 2 - Hazards Identification

GHS classification	Flammable liquids, Category 2 Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1 Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 2
GHS Pictograms	
Signal words	Danger
Hazard statements	H225 Highly flammable liquid and vapour H400 Very toxic to aquatic life H411 Toxic to aquatic life with long lasting effects
Precautionary Statement Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition 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. P280 Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment.
Precautionary Statement Response	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P370+P378 In case of fire: Use ... to extinguish. P391 Collect spillage.

Precautionary Statement Storage	P403+P235 Store in a well-ventilated place. Keep cool.
Precautionary Statement Disposal	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in classification	Not available

Section 3 – Composition/Information on Ingredients

Substances

Mixtures

Component information

Component	CAS number	EINECS number	Mass (%)
Hexamethyldisiloxane	107-46-0	203-492-7	≥ 99% wt

Section 4 - First Aid Measures

NOTE TO PHYSICIAN

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

After inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention

After skin contact

Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

After eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.

After ingestion

Do not induce vomiting without medical advice. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration.

Most important symptoms/effects, acute and delayed

Loosen tight clothing such as a collar tie belt or waistband. Do not use mouth -to- mouth method if victim ingested the substance. Seek immediate medical attention
no data available

Section 5 - Fire Fighting Measures

Suitable extinguishing agents

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

Special hazards caused by the material, its products of combustion or flue gases

Can be released in case of fire:
Carbon oxides, fumes.

Protective equipment for fire-fighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Section 6 - Accidental Release Measures

Person-related safety precautions

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.

Measures for environmental protection

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.

Measures for cleaning/collecting

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.

Additional information

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal

Section 7 - Handling and Storage

Handling

Information for safe handling

Avoid contact with skin eyes, mucous membranes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested.

Information about protection against explosions and fires

Keep away from heat, sources of ignition sparks or open flame.

STORAGE

Requirements to be met by storerooms and containers

Keep in a cool, dry well-ventilated place. Keep tightly closed until used.

Information about storage in one common storage facility

Store away from incompatible substances such as strong oxidizing agents, water, humidity alcohols, strong bases.

Further information about storage conditions

No data.

Section 8 - Exposure Controls/ Personal Protection

Limit Values for Exposure

Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH TLV-STEL
Hexamethyldisiloxane	107-46-0	N.E.	N.E.	N.E.	N.E.

Appropriate engineering controls

Use adequate ventilation to keep airborne concentrations low. Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice.

General protective and hygienic measures

Wash hands before breaks and at the end of workday.

Personal protective equipment

Splash goggles gloves, apron and a dust/vapor respirator. When workers are facing high concentrations they must use appropriate certified respirators.

Breathing equipment

Protection of hands

Wear appropriate chemical resistant gloves.

Eye/Face protection

Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.

Body protection

Note: 1. N.E. means not established.

Use clean protective body-covering as needed to minimize contact with clothing and skin.

Section 9 - Physical and Chemical Properties

Physical state	Liquid
Colour	Colorless
Odour	no data available
Melting point/freezing point	204 °C(lit.)
Boiling point or initial boiling point and boiling range	101 °C(lit.)
Flammability	no data available
Lower and upper explosion limit/flammability limit	no data available
Flash point	0°C
Auto-ignition temperature	no data available
Decomposition temperature	Not applicable
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility	In water, 0.93 mg/L at 25 deg C
Partition coefficient: n-octanol/water(log value)	log Kow = 4.2
Vapour pressure	42 mm Hg at 25 deg C (est)
Density and/ or relative density	0.764g/mL at 20° C(lit.)
Relative vapour density (air=1)	>1 (vs air)
Particle characteristics	Not applicable

Section 10 - Stability and Reactivity

Chemical stability	This is a stable chemical under recommended storage conditions
Possibility of hazardous reactions	Not available.
Conditions to avoid (e. g. static discharge, shock or vibration)	Incompatible materials. Humidity. Avoid contact with strong oxidizing agents, water, humidity alcohols, strong bases.
Incompatible materials	
Hazardous decomposition products	When heated to decomposition it emits acrid smoke, fumes.

Section 11 - Toxicological Information

Routes of Entry:	Dermal contact, eye contact, inhalation, ingestion.
Acute Toxicity	
	LD50(Oral, rat): > 5000 mg/ kg
Hexamethyldisiloxane (107-46-0)	Inhalation: no data available Dermal: no data available
Skin corrosion/Irritation	no data available
Serious eye damage irritation	no data available
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

Reproductive toxicity	Not classified
STOT-single exposure	no data available
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic Effects	Not classified
Further information	No data

Section 12 - Ecological Information

Ecotoxicity

Hexamethyldisiloxane (107-46-0)

Toxicity to fish: LC50 Oncorhynchus mykiss (rainbow trout) ca 3.02 mg/L/96 hr, flow-through bioassay

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Aquatic Toxicity

Toxicity to microorganisms: no data available

AEROBIC: No biodegradation data regarding hexamethyldisiloxane were found(SRC, 2006); however dimethyl siloxanes in general are highly resistant to biodegradation(1). As a member of this class biodegradation is not expected to be an important fate process.

Persistence and degradability

An estimated BCF of 340 was calculated for hexamethyldisiloxane(SRC), using a log Kow of 4.2(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is high(SRC), provided the compound is not metabolized by the organism(SRC).

Bioaccumulative potential

The Koc of hexamethyldisiloxane is estimated as 4,600(SRC), using a log Kow of 4.2(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that hexamethyldisiloxane is expected to have slight mobility in soil.

Mobility in soil

Additional Information

Not toxic to aquatic life.

Section 13 - Disposal Considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a licensed professional waste disposal service to dispose material.

Dispose of in accordance with local environmental regulations or local authority requirements.

Section 14 - Transport Information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number

UN 1993 3/PG 2

Proper Shipping Name

Hexamethyldisiloxane

Class/Division

Class 3 Flammable liquids

Package Group

PG II

Subsidiary risk

Class 8 Corrosive Substances

labelling pictogram



Maritime transport IMDG

IMDG Class: 3 IMDG Subrisk: None

Air transport ICAO-TI and IATA-DGR	UN Number: 1993 Packing Group: II EMS Number: F-E , S-E Special provisions: 274 Limited Quantities: 1 L Shipping Name: FLAMMABLE LIQUID, N.O.S ICAO/IATA Class: 3 ICAO/IATA Subrisk: None UN/ID Number: 1993 Packing Group: II Special provisions: A3 Cargo Only Packing Instructions: 307 Maximum Qty/Pack: 60 L Passenger and Cargo Passenger and Cargo Packing Instructions: 305 Maximum Qty/Pack: 5 L Passenger and Cargo Limited Quantity Passenger and Cargo Limited Quantity Packing Instructions: Y305 Maximum Qty/Pack: 1 L Shipping Name: FLAMMABLE LIQUID, N.O.S. *(CONTAINS HEXAMETHYLDISILOXANE)
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Section 15 - Regulatory Information

European/International Regulations

OSHA:	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
EINECS Status:	This chemical is not included in EINECS inventory
EPA TSCA Status:	This chemical is included in TSCA inventory
Canadian DSL(Domestic Substances list:	This chemical is included in DSL.
HMIS(Hazardous Material Identification System Ratings):	Health: 2 Flammability: 3 Physical hazard: 0 Personal protection: H
WHMIS(Canadian Workplace hazardous Material Identification System Ratings):	CLASS B-2: Flammable liquid with a flash point lower than 37.8° C (100° F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC)
GB 12268-2012 List of dangerous goods.	This product is a dangerous goods on the GB 12268-2012 list of dangerous goods.

Section 16 - Additional Information

MSDS Creation Date: 11/23/1998

Revision #4 Date: 05/16/2019

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