Safety Data Sheet According to Hazard Communication Standard (29 CFR 1910.1200)

Decamethylcyclopentasiloxane

Version 1.0 Revision date: 08/25/2022 Issue date: 08/25/2022

SDS record number: CSSS-TCO-010-152308

I. Product and Company Identification			
Material name	Decamethylcyclopentasiloxane		
Trade name	XHG-025		
CAS #	See section3		
Product code	-		
Product use	Not available		
Manufacturer/Supplier			
Supplier(Manufacturer):	Zhejiang Xinan Chemical Industrial Group Co., Ltd		
Address:	No.1 Xinan Building,Jiangbing Middle Road, Jiande City, Zhe	zjiang Province,	
	P.R.China		
Contact person(E-mail):	-		
Telephone:	+86-571-87215853		
Fax:	+86-571-87515494		
Emergency telephone Number:	+86-15869186083		
2. Hazards identification			
GHS classification			
Physical hazards	Not classified		
Health hazards	Reproductive toxicity	Category 2	
Environmental hazards	Not classified		
GHS label elements			
Hazard Pictograms			
Signal word	Warning		
Hazard statement	Suspected of damaging fertility or the unborn child		
Precautionary statement			
Prevention	Obtain special instructions before use.		
	Do not handle until all safety precautions have been read	and understood.	
	Wear protective gloves/protective clothing/eye protection	n/face protection.	
Response	If exposed or concerned: Get medical advice/attention.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordance with local re	gulation.	
Other hazards	Not available		
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3. Composition / Information on Ingredients

Components	CAS#	Percent
Decamethylcyclopentasiloxane	541-02-6	≥ 99% wt
Octamethylcyclotetrasiloxane	556-67-2	≤0.10%

4. First Aid Measures

Eye contact

Skin contact

Inhalation

Ingestion

Notes to physician

5. Fire Fighting Measure

Flammable properties

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Firefighting equipment/instructions

Hazardous combustion products

6. Accidental Release Measures

Personal precautions

Environmental precautions

Methods for cleaning up

7. Handling and Storage

Handling

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if irritation occurs.

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 capfuls of milk or water. Treat symptoms.

Not available

Use dry chemical, CO2, water spray (fog) or foam.

Do not use water jet.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Carbon dioxide, carbon monoxide.

See section 8

Do not allow material to enter drains or watercourses.

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with any inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (See Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Put on appropriate personal protective equipment (See Section 8). Avoid exposure-obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, Sparks, open flame or any other ignition source. Use explosion-proof electrical (Ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Storage

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

US. WORKPIACE Environmental	Exposure Lev		
Material	(0.40	Type	
Decamethylcyclopentasiloxane	(CAS	TWA	10 ppm
541-02-6)		-	
Material		Type	
Octamethylcyclotetrasiloxane		TWA	10 ppm
(CAS 556-67-2)			
Biological limit values			No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:			Use appropriate engineering controls to reduce air contamination to approved/permissible
			national exposure standard. Where such system is not effective wear suitable personal
			protective equipment, which perform satisfactorily and meets local/national standards.
			There should be local procedures for selection, training, inspection and maintenance of his
			equipment.
Individual protection measures, su	ich as person	al prote	
Eye / face protection			Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection			Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body and appropriate footwear and any additional skin protection should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection			Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
General hygiene			Wash hands, forearms and face thoroughly after handling chemical products, before eating,
considerations			smoking and using the lavatory and at the end of the working period. Keep away from
			foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
9. Physical & Chemical Prope	rties		
Appearance			
Physical state			Liquid
Form			Liquid
Color			Colourless
Odor			Odorless
Odor threshold			Not available
РН			Not available
Vapor pressure			33.2 Pa (25°C)
Vapor density			Not available
Boiling point			210 °C
Melting point/Freezing point			-38 °C
Solubility (water)			Insoluble (< 0.1 mg/L)
Relative density			0.96,20 °C
Flash point			82.7 °C

Material name: Decamethylcyclopentasiloxane Version #:1.0 Revision date: 08-25-2022.

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Partition coefficient	log Pow=8.07, 24.6 °C
Explosive limits in air, upper, %by volume	Not available
Explosive limits in air, lower, % by volume	Not available
Auto-ignition temperature	645.15 K
Molecular formula	C10H30O5Si5
Molecular weight	370.77
Other data	
Viscosity	3.5mPa.s (25°C)
Dissociation constant	Not available
10. Chemical Stability & Reactivity Informa	tion
Reactivity	The substance is stable under normal storage and handling conditions.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials; Slightly reactive
	or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Carbon dioxide, carbon monoxide.
Possibility of hazardous reactions	No dangerous reactions known.
11. Toxicological Information	
Toxicokinetics, metabolism and distribution:	
Non-human toxicological data:	Not available
Information on toxicological effects:	
Acute toxicity:	
LD50(Oral, Rat):	> 5 000 mg/kg bw
LD50(Dermal, Rat):	> 2 000 mg/kg bw
LC50(Inhalation, Rat):	8.67 mg/L air, 4h
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified

Acute to	əxicity	Time	Species	Method	Evaluation	Remarks
LC50	> 16 μg/L	96h	Fish	0ECD 203	N/A	N/A
EC50	> 2.9 μg/L	48h	Daphnia	0ECD 202	N/A	N/A
EC50	> 12 μg/L	96h	Algae	OECD 201	N/A	N/A

Not classified Not classified

Not classified

Not classified

Not classified

Persistence and degradability:

Germ cell mutagenicity:

Reproductive toxicity:

STOT- single exposure:

Aspiration hazard:

Toxicity:

STOT-repeated exposure:

12. Ecological Information

Carcinogenicity:

Under test conditions no biodegradation observed

Suspected of damaging fertility or the unborn child

Bioaccumulative potential:	BCF= 7 060
Mobility in soil:	log Koc: 5.17
Results of PBT&vPvB assessment:	Not available.
Other adverse effects:	Not available.
13. Disposal Considerations	
Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
14. Transport Information DOT	
Basic shipping requirements:	
UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No
ΙΑΤΑ	
UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	Νο
IMDG	
UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No
15. Regulatory Information	
US federal regulations	
Toxic Substances Control Act (TSCA)	
TSCA Section 12(b) Export Notification (40	CFR 707, Subpt. D)
Octamethylcyclotetrasiloxane	1.0 % One-Time Export Notification only.
(CAS 556-67-2)	
CERCLA Hazardous Substance List (40 CFR 3	02.4)
Not listed.	
SARA 304 Emergency release notification	
Not regulated.	
OSHA Specifically Regulated Substances (29 C	FR 1910.1001-1053)
Not listed.	
Superfund Amendments and Reauthorization Act o	f 1986 (SARA)
SARA 302 Extremely hazardous substance	
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Material name: Decamethylryclopentasiloxane	SDS US

Classified hazard categories	Reproductive toxicity
SARA 313 (TRI reporting)	
Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section 112 Hazardous A	ir Pollutants (HAPs) List
Not regulated.	
Clean Air Act (CAA) Section 112(r) Accidente	al Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. California. Candidate Chemicals List. Safer	Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
(a))	
Decamethylcyclopentasiloxane (CAS 541-02-6)
Octamethylcyclotetrasiloxane (CAS 556-67-2	
16. Other Information	
HMIS®ratings	Health: 3
	Flammability: 2
	Physical hazard: 0
NFPA ratings	Health: 3
	Flammability: 2
	Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience
have date	currently available. 08-25-2022
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