



浙江省检验检疫科学技术研究院
国家危险化学品检测重点实验室（浙江）



中国认可
检测
TESTING
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正本/ORIGIN

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Safety Data Sheet

Applicant name: ZHEJIANG ZHONGTIAN FLUORINE
SILICON MATERIAL CO., LTD.

Product Name: Hexamethylcyclotrisiloxane

Edit date: 9th August, 2018

Edit institution: Zhejiang Academy of Science and Technology for
Inspection and Quarantine

Approver: 万旺军



1. Unless other wise stated, this test report is only responsible for the sample(s).
2. This test report can not be reproduced, except in full, without prior written permission of the lab.

1. Identification of substance

Product Name	Hexamethylcyclotrisiloxane
Other Name	None
Chemical Name	None
Recommended Use	Used for raw material of 107 RTV Silicone Rubber and hydroxy silicone oil.
Manufacturer Name	ZHEJIANG ZHONGTIAN FLUORINE SILICON MATERIAL CO., LTD.
Address	No.20 Huayin North Road, High-tech Industrial Park, Quzhou City, Zhejiang Province, China /314004
Phone Number	+86-570-5898038
Fax Number	+86-570-8598000
WEB	None
Emergency Phone Number	+86-570-8598051 or call your nearest poison control centre.

2. Hazards identification

GHS classification	Flammable solids 1 Skin corrosion/irritation 2 Serious eye damage/eye irritation 2A Reproductive toxicity 2 Specific target organ toxicity, single exposure 3
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GHS Pictograms



Signal words	Danger
Hazard statements	H228: Flammable solid H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation H361: Suspected of damaging fertility or the unborn child
Precautionary Statement	P201: Obtain special instructions before use.
Prevention	P202: Do not handle until all safety precautions have been read and understood. 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. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area.

Precautionary Statement
Response

P280 : Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
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.
P308+P313 : IF exposed or concerned: Get medical advice/attention.
P312: Call a POISON CENTER/doctor if you feel unwell.
P321 : Specific treatment (see the supplemental first aid instruction).
P332+P313 : If skin irritation occurs: Get medical advice/attention.
P337+P313 : If eye irritation persists: Get medical advice/attention.
P362+P364: Take off immediately contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use extinguisher to extinguish.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501 Dispose of contents/container in according with local regulation.
Other hazards which do not result in classification Not applicable.

Precautionary Statement
Storage

Precautionary Statement
Disposal

Other hazards which do not result in classification

3. Composition/information on ingredients

☐ Substances

☒ Mixtures

Component Information

Component	CAS number	EINECS number	Mass(%)
Hexamethylcyclotri-siloxane	541-05-9	208-765-4	95%wt
Octamethylcyclotetra-siloxane	556-67-2	209-136-7	5%wt

Note:1. Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1%

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. 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.
Most important symptoms/effects, acute and delayed	Causes skin irritation Causes serious eye irritation May cause respiratory irritation Suspected of damaging fertility or the unborn child

5. Fire-fighting measures

Suitable extinguishing agents	Carbon dioxide, dry sand, dry chemical powder.
Special hazards caused by the material, its products of combustion or flue gases	Can be released in case of fire: Carbon oxides, silicon dioxide.
Protective equipment for fire-fighters	Wear self-contained breathing apparatus, a chemical safety goggles, antistatic work clothes, rubber gloves.

6. Accidental release measures

Person-related safety precautions	Ensure adequate ventilation. Avoid formation of dust. Remove all sources of ignition. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Sweep off and arrange disposal in suitable container. Clean contaminated surface thoroughly.
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.

7. Handling and storage

Handling

Information for safe handling	Avoid contact with skin, eyes, mucous membranes and clothing. Avoid formation of dust and aerosols. Ensure workshop has good ventilation/exhaust device. 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 - No smoking. Take measures to prevent the build up of electrostatic charge.
STORAGE	
Requirements to be met by storerooms and containers	Keep in a cool, dry, well-ventilated place. Keep tightly closed. Do not contact with water.
Information about storage in one common storage facility	Store away from incompatible substances such as water, strong oxidizing agents. Protect from heat and dampness.
Further information about storage conditions	No data

8. Exposure controls/personal protection

Limit Values for Exposure Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH PEL-TWA	NIOSH PEL-STEL
Hexamethylcyclotri-siloxane	541-05-9	N.E.	N.E.	N.E.	N.E.
Octamethylcyclotetra-siloxane	556-67-2	N.E.	N.E.	N.E.	N.E.
Appropriate engineering controls	Use adequate ventilation to keep airborne concentrations low.				
General protective and hygienic measures	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. Wash hands before breaks and at the end of workday.				
Personal protective equipment	Gloves, safety glasses with protective side covers.				
Breathing equipment	When workers are facing high concentrations they must use appropriate certified respirators.				
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	Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.				

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

9. Physical and chemical properties

Physical state	Crystal
Colour	White
Odour	No data available
Melting point/freezing point	50-64 °C
Boiling point or initial boiling point and boiling range	134°C (101.3kPa)
Flammability	Flammable
Lower and upper explosion limit/flammability limit	No data available
Flash point	35 °C (Closed cup)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in water and soluble in organic solvents such as benzene.
Partition coefficient: n-octanol/water(log value)	No data available
Vapour pressure	No data available
Density and/or relative density	1.02 (25 °C)
Relative vapour density (air=1)	No data available
Particle characteristics	No data available

10. Stability and reactivity

Chemical stability	This is a stable chemical under recommended storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat, flames and sparks. extreme temperatures and direct sunlight. Exposure to wet.
Incompatible materials	Oxidizing agents. Water/moist air.
Hazardous decomposition products	Carbon oxides, silicon dioxide.

11. Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity

Hexamethylcyclotri- LD50 (Oral, rat) N/A
siloxane: LC50 (Inhalation, rat) N/A
(CAS 541-05-9) LD50 (Dermal, rabbit) N/A

Skin corrosion/Irritation Causes skin irritation.

Serious eye Causes serious eye irritation.
damage/irritation

Respiratory or skin Not classified
sensitization

Germ cell mutagenicity Not classified

Carcinogenicity Not classified

Reproductive toxicity Suspected of damaging fertility or the unborn child.

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Not classified

Aspiration hazard Not classified

Chronic Effects Not classified

Further Information No data

12. Ecological information

Ecotoxicity

Aquatic Toxicity Hexamethylcyclotrisiloxane(CAS 541-05-9)
Test & Species
96 Hr LC50 Fish: > 1.6 mg/l
48 Hr EC50 Daphnia: > 1.6 mg/l
72 Hr EC50 Algae: > 1.6 mg/l

Persistence and Not available
degradability

Bioaccumulative potential Not available

Mobility in soil Not available

Additional Information Not toxic to aquatic life.

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this material.

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

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number UN 1325

Proper Shipping Name FLAMMABLE SOLID, ORGANIC, N.O.S.
(Hexamethylcyclotrisiloxane)

Class/Division Division 4.1 Flammable Solids

Package Group
Subsidiary risk
labelling pictogram

PG II
None



Maritime transport IMDG/ Being same with TDG/ No
Marine pollutant (Yes/No)
Air transport ICAO-TI and Being same with TDG
IATA-DGR

15. Regulatory information

European/International Regulations

OSHA: Hazardous by definition of Hazard Communication Standard(29CFR 1910.1200).

EINECS Status: This chemical is included in EINECS inventory.

EPA TSCA Status: This chemical is included in TSCA inventory.

Canadian This chemical is included in DSL.

**DSL(Domestic
Substances List):**

**HMIS(Hazardous
Material Identification
System Ratings):** Health: 2
Flammability: 3
Physical hazard: 1
Personal protection: F
(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)

WHMIS(Canadian Not listed.

**Workplace Hazardous
Material Identification
System Ratings):**

**GB 12268-2012 List of
dangerous goods** This chemical is a dangerous goods on the GB 12268-2012 list of dangerous goods.

16. other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE", "International Air Transport Association Dangerous Goods Regulations",

the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Edit Date 09.08.2018

Update and Revise Original edition

Edit Standard *Globally Harmonized System of Classification and Labelling for Chemicals* Part 1.5

Revised Institution Zhejiang Academy of Science and Technology for Inspection and Quarantine

INSPECTOR