



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 25-May-2023 Revision Number 1.06

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Octamethylcyclotetrasiloxane	
Product Code	154-01092	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome	
	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964	
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029	
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.	

### Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Flammable liquids Reproductive Toxicity Chronic aquatic toxicity

Category 3 Category 2 Category 1

Pictograms



### Hazard statements

- H226 Flammable liquid and vapour
- H361 Suspected of damaging fertility or the unborn child
- H410 Very toxic to aquatic life with long lasting effects

### **Precautionary statements-(Prevention)**

- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Avoid release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- · Use explosion-proof electrical/ ventilating / lighting / equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- In case of fire: Use CO2, dry chemical, or foam for extinction
- Collect spillage

### Precautionary statements-(Storage)

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

#### Others Other hazards

Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Single Substance or Mixture** Substance

### Formula

#### C8H24O4Si4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Octamethylcyclotetrasilo	95.0	296.62	(7)-475	*	556-67-2
xane					
Note on ISHL No.:	* in the	table means announ	ced chemical substa	ances.	

Note on ISHL No .:

Not applicable

Impurities and/or Additives:

### Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### **Protection of first-aiders**

Use personal protective equipment as required.

### Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

#### Unsuitable extinguishing media

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air

### Special extinguishing method

No information available

### Special protective actions for

### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: HANDLING AND STORAGE

#### Handling

#### **Technical measures**

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

#### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

#### Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Storage

Safe storage conditions	
Storage conditions	Store away from sunlight in well-ventilated place at room temperature (preferably cool).
-	Keep container tightly closed. Packed with an inert gas.
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

#### **Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection

gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	
Turbio	lity

Colorless - nearly colorless clear

Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: Decomposition temperature: рΗ Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities

n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics

liquid characteristic odor 16 - 18 °C 175 °C Flammable liquid and vapor no data available no data available 11.7 0.4 51 °C 400°C no data available no data available no data available no data available Ethanol, acetone: Very soluble. water: practically insoluble, or insoluble . no data available 100Pa 0.952 -0.962 g/m L (20°C) 10.3(air=1) no data available

### Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

 Incompatible materials

 Strong oxidizing agents

 Hazardous decomposition products

 Carbon monooxide (CO), Carbon dioxide (CO2), Silicon compounds

### Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Octamethylcyclotetrasiloxane	1540 mg/kg (Rat)	794 µL/kg (Rabbit)	36 g/m³ (Rat)4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Octamethylcyclotetrasiloxane			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Octamethylcyclotetrasiloxane			Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Octamethylcyclotetrasiloxane	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	

Octamethylcyclotetrasiloxane	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Octamethylcyclotetrasiloxane	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Octamethylcyclotetrasiloxane	Based on the NITE GHS classification results.
Carcinogenicity	·
Chemical Name	Carcinogenicity source information
Octamethylcyclotetrasiloxane	Based on the NITE GHS classification results.
Reproductive toxicity	
	Reproductive toxicity source information
Chemical Name	Reproductive toxicity source information Based on the NITE GHS classification results.
Chemical Name Octamethylcyclotetrasiloxane	
Chemical Name	
Chemical Name Octamethylcyclotetrasiloxane STOT-single exposure	Based on the NITE GHS classification results.
Chemical Name Octamethylcyclotetrasiloxane STOT-single exposure Chemical Name	Based on the NITE GHS classification results.  STOT -single exposure- source information
Chemical Name Octamethylcyclotetrasiloxane STOT-single exposure Chemical Name Octamethylcyclotetrasiloxane	Based on the NITE GHS classification results.  STOT -single exposure- source information
Chemical Name Octamethylcyclotetrasiloxane STOT-single exposure Chemical Name Octamethylcyclotetrasiloxane STOT-repeated exposure	Based on the NITE GHS classification results.  STOT -single exposure- source information Based on the NITE GHS classification results.
Chemical Name Octamethylcyclotetrasiloxane STOT-single exposure Chemical Name Octamethylcyclotetrasiloxane STOT-repeated exposure Chemical Name	Based on the NITE GHS classification results.         STOT -single exposure- source information         Based on the NITE GHS classification results.         STOT -repeated exposure- source information
Chemical Name Octamethylcyclotetrasiloxane STOT-single exposure Chemical Name Octamethylcyclotetrasiloxane STOT-repeated exposure Chemical Name Octamethylcyclotetrasiloxane	Based on the NITE GHS classification results.         STOT -single exposure- source information         Based on the NITE GHS classification results.         STOT -repeated exposure- source information

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Octamethylcyclotetrasiloxane	N/A	LC50 : Lepomis macrochirus	EC50 : Daphnia magna
		1000 mg/L 96 h	25.2 mg/L 24 h
		LC50 : Brachydanio rerio	
		500 mg/L 96 h	

### Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
		Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

### Section 13: DISPOSAL CONSIDERATIONS

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name:

UN1993 Flammable liquid, n.o.s. (Octamethylcyclotetrasiloxane)

UN classfication Subsidiary hazard class Packing group Marine pollutant	3 III Yes
IMDG	
UN number	UN1993
Proper shipping name:	Flammable liquid, n.o.s. (Octamethylcyclotetrasiloxane)
UN classfication	3
Subsidiary hazard class	
Packing group	III
Marine pollutant (Sea)	Yes
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN1993
Proper shipping name:	Flammable liquid, n.o.s. (Octamethylcyclotetrasiloxane)
UN classfication	3
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous	Yes
Substance	

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed		
<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious Substances Control Law Industrial Safety and Health Ac	Category IV, Class II petrole Not applicable		ent Order Attached Table 1
industrial barety and freatin Ac	Item 4)		
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc	Monitoring Chemical Substan	nces (Law Art.2, Para.4)	
Regulations for the carriage and storage of dangerous goods in ship	Flammable Liquids (Ordinand Transport by Ship and Storag	ce Art.3, Ministry of Transporta ge, Attached Table 1)	ation Ordinance Regarding
Civil Aeronautics Law	Flammable Liquids (Ordinand Explosives etc., Attached Tal	ce Art.194, MITL Nortification f ble 1)	for Air Transportation of
Pollutant Release and Transfer Register Law (2023.4.1-)	<sup>r</sup> Class 1		
Class 1 - No.	601		
Export Trade Control Order	Not applicable		
Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Octamethylcyclotetrasiloxane 556-67-2 (95.0)	-	-	Applicable

## Section 16: OTHER INFORMATION

Key literature references and

NITE: National Institute of Technology and Evaluation (JAPAN)

sources for data etc.	http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions	The following contents were revised. Prodauct and company Identification. Fire fighting measures. Exposure controls/personal protection. Ecological information. Regulatory information.
Dissistant	

#### Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

### End of Safety Data Sheet