

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2015/830,
According to REGULATION (EC) No 1272/2008

Octamethylcyclotetrasiloxane

Version 1.0

Printing date: 05-12-2018

Revision date: 05-12-2018

SDS Record Number: CSSS-TCO-010-114775

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Octamethylcyclotetrasiloxane
Additional identification: Cyclic dimethylsiloxane tetramer
Identification of the product: CAS# 556-67-2; EC# 209-136-7
Index Number: Not available
REACH registration No.: 01-2119529238-36-****

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Use as a monomer in the production of silicone polymers.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer): Zhejiang Xinan Chemical Industrial Group Co., Ltd.
Address: Xinanjiang, Jiande, Zhejiang, China 311600
Contact person(E-mail): wynca_info@wynca.cn
Telephone: 0571-87214278
Fax: 0571-87215494

1.4 Emergency telephone Number:

+353 41 980 6916 Only available during office hours (8:30a.m.-17:30p.m)

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

| REGULATION (EC) No 1272/2008 | |
|----------------------------------|--------------|
| Hazard classes/Hazard categories | Hazard codes |
| Flam. Liquid 3 | H226 |
| Repr. 2 | H361 |
| Aquatic Chronic 4 | H413 |

For full text of H- phrases: see section 2.2.

2.2 label elements:

Product name: octamethylcyclotetrasiloxane

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SDS EU

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Hazard Pictograms:**Signal Word(S):**

Warning

Hazard Statement:

H226: Flammable liquid and vapour.

H361: Suspected of damaging fertility or the unborn child

H413: May cause long lasting harmful effects to aquatic life.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P273: Void release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

P370 + P378: In case of fire: Use dry sand, dry soda ash, dry powder for extinction.

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container in according with local regulation.

2.3 Other hazards:

EUH014: Reacts violently with water.

Section 3 Composition/information on ingredients**Substance/Mixture:**

Substance

Ingredient(s):

| Chemical Name | Registration No. | CAS No. | EC No. | Concentration |
|------------------------------|-----------------------|----------|-----------|---------------|
| Octamethylcyclotetrasiloxane | 01-2119529238-36-**** | 556-67-2 | 209-136-7 | 98.0% |

Section 4 First aid measures**4.1 Description of first aid measures:**

First-aid crew: Take persons to a safe place. Observe self-protection for first aid.

4.1.1 In case of inhalation:

Move the person away from the contaminated area. Make the affected person rest. If necessary seek medical advice.

4.1.2 In case of skin contact:

After contact with skin, clean with skinprotecting substances (polyethylene glycol), then wash with soap and water and apply skin cream.

4.1.3 In case of eyes contact:

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice in case of continuous irritation.

4.1.4 In case of ingestion:

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

4.2 Most important symptoms and effects, both acute and delayed:

No significant adverse effects from normal use.

4.3 Indication of any immediate medical attention and special treatment needed:

Product contains reproductive toxins (may cause harm to the unborn child and /or impairs male or female reproductive function).

After exposure, it is recommended that you seek specialist medical advice.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

On large fires use AFFF alcohol compatible foam or water spray (fog). On small fires use AFFF alcohol compatible foam, CO₂ or water sprays (fog). Water can be used to cool fire exposed containers.

Unsuitable extinguishing media:

Straight streams of water

5.2 Special hazards arising from the substance or mixture

Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

5.3 Special fire fighting methods and special protective actions for fire-fighters:

A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Wear personal protection equipment. Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping. Refer to section 8 of SDS for personal protection details.

6.1.2 For emergency responders:

Wear relevant protective equipment (NIOSH/MSHA approved respirator if dust is generated, protective clothing, gloves and tightly fitting goggles).

6.2 Environmental Precautions:

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods for Containment and Cleaning up:

For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Wash the floor with an appropriate solvent. Incinerate contaminated materials at an authorized installation.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information:

Not applicable.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Keep containers tightly closed in a dry, cool and well-ventilated place. Spilled substance increases risk of slipping. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Keep away from sources of ignition and do not smoke. Cool endangered containers with water.

7.1.2 Advice on general occupational hygiene:

Take off contaminated clothing and shoes immediately. Do not breathe dust. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Handle in accordance with good industrial hygiene and safety practice. Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container tightly closed. Vapours may form explosive mixtures with air. Storage temperature: minimum -40 °C, maximum 54 °C

7.3 Specific end use(s):

Not available

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Eye protection (EN 166). Tightly fitting safety goggles.

Hand protection: Protective gloves made of butyl rubber, nitrile rubber protective gloves. Gloves suitable for up to 60 minutes' use.

Body protection: Flame retardant antistatic protective clothing.

Respiratory protection: In case of long or strong exposure: gas mask filter ABEK .

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Do not flush into surface water or sanitary sewer system. Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: Oily

Colour: Colorless

Odour: Odorless

Odour threshold: Not available

| | |
|---|---|
| pH: | Not available |
| Melting point/range (°C): | 17 - 18 °C |
| Boiling point/range (°C): | 175-176 °C @ 760 mm Hg |
| Flash point (°C): | 55 °C |
| Evaporation rate: | Not available |
| Flammability limit - lower (%): | 0.75% |
| Flammability (solid, gas): | Not available |
| Ignition temperature (°C): | Not available |
| Upper/lower flammability/explosive limits: | Not available |
| Vapour pressure (20°C): | 1 mm Hg @ 21.7 °C |
| Vapour density: | 10.23 |
| Relative Density: | Not available |
| Bulk density (kg/m³): | 9.5 kg/cm ³ |
| Water solubility (g/l): | Insoluble. |
| n-Octanol/Water (log Po/w): | 6.488 @ 25 °C |
| Auto-ignition temperature: | 384- 387 °C |
| Decomposition temperature: | Not available |
| Viscosity, dynamic (mPa.s): | 2.7 mPa s @ 25 °C |
| Explosive properties: | Not available |
| Oxidising properties: | Not available |
| Molecular Formula: | C ₈ H ₂₄ O ₄ Si ₄ |
| Molecular Weight: | 296.61 |

9.2. Other information:

| | |
|---|---------------|
| Fat solubility(solvent– oil to be specified) | Not available |
| etc: | |
| Surface tension: | Not available |
| Dissociation constant in water(pKa): | Not available |
| Oxidation-reduction Potential: | Not available |
| Specific gravity: | Not available |

Section 10 Stability and reactivity

| | |
|---|---|
| 10.1 Reactivity: | The product is stable. |
| 10.2 Chemical stability: | This material is stable when properly handled and stored. |
| 10.3 Possibility of hazardous reactions: | None known. |
| 10.4 Conditions to avoid: | Eliminate all possible sources of ignition. Exposure to moist air or water. |
| 10.5 Incompatible materials: | Strong oxidizing agents, strong acids. |
| 10.6 Hazardous decomposition products: | Carbon monoxide, carbon dioxide, formaldehyde, oxides of silicon. |

Section 11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: The oral absorption of D4 can be significantly influenced by the carrier.

11.2 Information on toxicological effects:

Acute toxicity:

| | |
|---|----------------------------|
| LD50(Oral, Rat): | LD50 (rat) > 4800 mg/kg bw |
| LD50(Dermal, Rat): | LD50 (rat) >2400 mg/kg) bw |
| LC50(Inhalation, Rat): | LC50 (rat) = 36 mg/L air |
| Skin corrosion/Irritation: | Not classified |
| Serious eye damage/irritation: | Not classified |
| Respiratory or skin sensitization: | Not classified |
| Germ cell mutagenicity: | Not classified |
| Carcinogenicity: | Not classified |
| Reproductive toxicity: | Not classified |
| STOT- single exposure: | Not classified |
| STOT-repeated exposure: | Not classified |

Section 12 Ecological information

12.1 Toxicity:

| Acute toxicity | | Time | Species | Method | Evaluation | Remarks |
|----------------|-----------|------|---------|----------|------------|---------|
| LC50 | > 22 µg/L | 96h | Fish | OECD 203 | N/A | N/A |
| EC50 | > 15 µg/L | 48h | Daphnia | OECD 202 | N/A | N/A |
| EC50 | > 22 µg/ | 72h | Algae | OECD 201 | N/A | N/A |

| | |
|---|--|
| 12.2 Persistence and degradability: | Little biodegradation. |
| 12.3 Bioaccumulative potential: | Not available. |
| 12.4 Mobility in soil: | The sorption of D4 was largely reversible for short contact times (~48h) |
| 12.5 Results of PBT&vPvB assessment: | Not available. |
| 12.6 Other adverse effects: | Not available. |

Section 13 Disposal considerations

| | |
|---|---|
| 13.1 Waste treatment methods: | Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. If recycling is not practicable, dispose of in compliance with local regulations. |
| 13.2 Product / Packaging disposal: | The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations. Refer to manufacturer/supplier for information on recovery/recycling. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. |

Section 14 Transport information

| | Land transport(ADR/RID) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|--|-------------------------|----------------------|---------------------------|
| | | | |

| | | | |
|--|---------------------------|---------------------------|---------------------------|
| UN-Number | 1933 | 1933 | 1933 |
| UN Proper shipping name | FLAMMABLE LIQUIDS, N.O.S. | FLAMMABLE LIQUIDS, N.O.S. | FLAMMABLE LIQUIDS, N.O.S. |
| Transport hazard Class | 3 | 3 | 3 |
| Packaging group | III | III | III |
| Environmental hazards | No | No | No |
| Special precautions for user | See section 2.2 | See section 2.2 | See section 2.2 |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not regulated | Not regulated | Not regulated |

Section 15 Regulation information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by EU No 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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