

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 09 Feb 2026

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Hexamethylcyclotrisiloxane

### 1.1. Catalog No.:

694283

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
An der Laakenwiese 7

04838 Jesewitz  
Deutschland

Tel. +49 34241 54 990  
Fax. +49 34241 54 9999  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008  
Flammable solids (Category 1), H228  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2. Label elements

#### 2.2.1. Pictogram



#### 2.2.2.

2.2 Label elements  
Labelling according Regulation (EC) No 1272/2008  
Pictogram Signal word Danger Hazard statement(s)  
H228 Flammable solid.  
Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Supplemental Hazard Statements  
none  
2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula : C<sub>6</sub>H<sub>18</sub>O<sub>3</sub>Si<sub>3</sub>

Molecular weight : 222,47 g/mol

CAS-No. : 541-05-9

EC-No. : 208-765-4

No components need to be disclosed according to the applicable regulations.  
For the full text of the H-Statements mentioned in this Section, see Section 16

#### 3.1.1. Formula

C<sub>6</sub>H<sub>18</sub>O<sub>3</sub>Si<sub>3</sub>

#### 3.1.2. Molecular Weight (g/mol)

222.46

#### 3.1.3. CAS-No.

541-05-9

### 4. FIRST AID MEASURES

4.1 Description of first aid measures

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse

mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

Carbon oxides, silicon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Store under inert gas.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: Chunks

Colour: white

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting

point/freezing point

Melting point/range: 60 °C

f) Initial boiling point

and boiling range

134 °C at 1013 hPa

g) Flash point 35 °C - closed cup

h) Evaporation rate No data available

i) Flammability (solid,

gas)

The substance or mixture is a flammable solid with the category

1.

j) Upper/lower

flammability or

explosive limits

No data available k) Vapour pressure 6,71 hPa at 25 °C

l) Vapour density 7,68 - (Air = 1.0)

m) Relative density 1,19 g/cm<sup>3</sup> at 25 °C

n) Water solubility 0,0016 g/l at 23 °C - slightly soluble

o) Partition coefficient:

n-octanol/water

No data available

p) Auto-ignition

temperature

659 K

at 1013,0 hPa

q) Decomposition

temperature

No data available

r) Viscosity No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

Relative vapour

density

7,68 - (Air = 1.0)

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity  
No data available
- 10.2 Chemical stability  
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions  
No data available
- 10.4 Conditions to avoid  
Heat, flames and sparks. Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials  
Strong oxidizing agents
- 10.6 Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, silicon oxides  
Other decomposition products - No data available  
In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
    - Acute toxicity  
No data available
    - Skin corrosion/irritation  
No data available
    - Serious eye damage/eye irritation  
No data available
    - Respiratory or skin sensitisation  
Maximisation Test - Guinea pig  
Result: Does not cause skin sensitisation.  
(OECD Test Guideline 406)
    - Germ cell mutagenicity  
Ames test  
S. typhimurium  
Result: negative  
Rat - male  
Result: negative
    - Carcinogenicity  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
    - Reproductive toxicity  
No data available
    - Specific target organ toxicity - single exposure  
No data available
    - Specific target organ toxicity - repeated exposure  
No data available
    - Aspiration hazard  
No data available
    - Additional Information  
Repeated dose toxicity - Rat - male and female - Inhalation  
RTECS: Not available
- To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity  
Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - >  
1,6 mg/l - 96 h
- Toxicity to daphnia  
and other aquatic  
invertebrates

flow-through test EC50 - Daphnia magna (Water flea) - > 1,6 mg/l -  
48 h  
Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 1,6 mg/l - 72  
h  
(OECD Test Guideline 201)  
Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - > 100 mg/l - 3 h  
(OECD Test Guideline 209)  
12.2 Persistence and degradability  
Biodegradability aerobic - Exposure time 28 d  
Result: 0,06 % - Not biodegradable (OECD Test Guideline 310)  
12.3 Bioaccumulative potential  
No data available  
12.4 Mobility in soil  
No data available  
12.5 Results of PBT and vPvB assessment  
PBT/vPvB assessment not available as chemical safety assessment not required/not  
conducted  
12.6 Other adverse effects

### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods  
Product  
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra  
care in igniting as this material is highly flammable. Offer surplus and non-recyclable  
solutions to a licensed disposal company.  
Contaminated packaging  
Dispose of as unused product.

### 14. TRANSPORT INFORMATION

14.1 UN number  
ADR/RID: 1325 IMDG: 1325 IATA: 1325  
14.2 UN proper shipping name  
ADR/RID: FLAMMABLE SOLID, ORGANIC, N.O.S. (Hexamethylcyclotrisiloxane)  
IMDG: FLAMMABLE SOLID, ORGANIC, N.O.S. (Hexamethylcyclotrisiloxane)  
IATA: Flammable solid, organic, n.o.s. (Hexamethylcyclotrisiloxane)  
14.3 Transport hazard class(es)  
ADR/RID: 4.1 IMDG: 4.1 IATA: 4.1  
14.4 Packaging group  
ADR/RID: II IMDG: II IATA: II  
14.5 Environmental hazards  
ADR/RID: no IMDG Marine pollutant: no IATA: no  
14.6 Special precautions for user  
No data available

### 15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
15.2 Chemical safety assessment  
For this product a chemical safety assessment was not carried out

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!