

## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 07 Aug 2023

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

#### 1.1. Product name:

Decamethylcyclopentasiloxane

## 1.1. Catalog No.:

679121

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

Identified: Laboratory chemical uses: R&D

## 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 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 Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

# 2.2. Label elements

## 2.2.1. Pictogram

## 2.2.2.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

5.1 Substances Formula : C10H30O5Si5 Molecular weight : 370,78 g/mol CAS-No. : 541-02-6 EC-No. : 208-764-9

Component Classification Concentration

Decamethylcyclopentasiloxane Included in the Candidate List of Substances of Very High



Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

CAS-No. EC-No. 541-02-6 208-764-9 <= 100 %

#### 3.1.1. Formula

C10H30O5Si5

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

370.77

#### 3.1.3. CAS-No.

541-02-6

#### 4. FIRST AID MEASURES

4.1 Description of first-aid measures

General advice

Consult a physician. Show this material 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.
Unsuitable extinguishing media
Do Not use water Jet 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 breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low 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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling Advice on safe handling Avoid inhalation of vapor or mist.



Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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

8.1 Control parameters

Ingredients with workplace control parameters 8.2 Exposure controls

Personal protective equipment Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

**Body Protection** 

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Control of environmental exposure

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: clear, liquid Color: colorless

b) Odor No data available c) Odor Threshold No data available

d) pH No data available

e) Melting
point/freezing point
Melting point/range: -38 °C at ca.1.013 hPa
f) Initial boiling point

and boiling range 210 °C at 1.013 hPa - lit. g) Flash point 73 °C - closed cup h) Evaporation rate No data available

i) Flammability (solid,

gas) No data available

j) Upper/lower flammability or

explosive limits

No data available

k) Vapor pressure 0,3 hPa at 25 °C

A) Vapor pressure 0,5 m a at 25 °C 41 hPa at 110,6 °C I) Vapor density No data available m) Density 0,958 g/cm3 at 25 °C - lit. Relative density 0,96 at 20 °C n) Water solubility 0,00001 g/l at 23 °C - insoluble

o) Partition coefficient:

n-octanol/water

log Pow: 8,023 at 25,3 °C

p) Autoignition témperature

645,15 K



at 1013,0 hPa
q) Decomposition
temperature
No data available
r) Viscosity Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
s) Explosive properties No data available
t) Oxidizing properties No data available
9.2 Other safety information
No data available

#### 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.
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity
LD50 Oral - Rat - > 5.000 mg/kg
(OECD Test Guideline 401)
LC50 Inhalation - Rat - male and female - 4 h - 8,67 mg/l (OECD Test Guideline 403) LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402) Skin corrosion/irritation Skin - Rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation - 24 h (OECD Test Guideline 405) Respiratory or skin sensitization in vivo assay - Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Germ cell mutagenicity Test Type: Ames test
Test system: S. typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471 Result: negative
Test Type: in vivo assay
Species: Rat Application Route: Inhalation Method: OECD Test Guideline 486 Result: negative Carcinogenicity No data available 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 11.2 Additional Information Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - >= 1.000 mg/kg RTECS: GY5945200

To the best of our knowledge, the chemical, physical, and toxicological properties have not

### 12. ECOLOGICAL INFORMATION

been thoroughly investigated.



No toxicity at the limit of solubility.

12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 28 d
Result: 0,14 % - Not biodegradable.
(OECD Test Guideline 310)

12.3 Bioaccumulative potential
Bioaccumulation Pimephales promelas (fathead minnow) - 35 d
at 22 °C - 0,0011 mg/l(Decamethylcyclopentasiloxane)
Bioconcentration factor (BCF): 7.060
(OECD Test Guideline 305)
Remarks: Can accumulate in aquatic organisms.

12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
This substance/mixture contains components considered to be either.

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB). 12.6 Other adverse effects

No data available

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
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: - IMDG: - IATA: 14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: 14.4 Packaging group
ADR/RID: - IMDG: - IATA: 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 material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Authorisations and/or restrictions on use
REACH - Candidate List of Substances of Very
High Concern for Authorisation (Article 59).
: Decamethylcyclopentasiloxane
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!