

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## BYK-SILCLEAN 3701

Version 9.0

SDB\_IE

Revision Date: 15.05.2025

Date of last issue: 14.05.2025

Print Date 20.05.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : BYK-SILCLEAN 3701

Product code : 000000000000111208

Substance name : Siloxanes and Silicones, di-Me, Bu group- and vinyl group-terminated, reaction products with di-Me, Me hydrogen siloxanes and 2-[(2-propen-1-yloxy)methyl]oxirane

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Surface Additive

#### 1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-0

Telefax : +49 281 65735

  

Information : Regulatory Affairs

Telephone : +49 281 670-23532

Telefax : +49 281 670-23533

E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone number

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|                                                |                                                                                          |
|------------------------------------------------|------------------------------------------------------------------------------------------|
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects.                                   |
| Persistent, bioaccumulative and toxic          | EUH440: Accumulates in the environment and living organisms including in humans          |
| Very persistent and very bioaccumulative       | EUH441: Strongly accumulates in the environment and living organisms including in humans |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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|                          |   |                                                                                                    |                                                                                                                                                                                                                                                       |
|--------------------------|---|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms        | : |                                                                                                    |                                                                                                                                                                                                                                                       |
| Signal word              | : | Danger                                                                                             |                                                                                                                                                                                                                                                       |
| Hazard statements        | : | H411<br>EUH441                                                                                     | Toxic to aquatic life with long lasting effects.<br>Strongly accumulates in the environment and living organisms including in humans                                                                                                                  |
| Precautionary statements | : | <b>Prevention:</b><br>P201<br>P202<br>P273<br><b>Response:</b><br>P391<br><b>Disposal:</b><br>P501 | Obtain special instructions before use.<br>Do not handle until all safety precautions have been read and understood.<br>Avoid release to the environment.<br>Collect spillage.<br>Dispose of contents/ container to an approved waste disposal plant. |

### 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).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Siloxanes and Silicones, di-Me, Bu group- and vinyl group-terminated, reaction products with di-Me, Me hydrogen siloxanes and 2-[(2-propen-1-yloxy)methyl]oxirane

Chemical nature : Polysiloxane, epoxy functional

#### Components

| Chemical name                | CAS-No.<br>EC-No.     | Concentration (%)<br>w/w) | M-Factor, SCL, ATE |
|------------------------------|-----------------------|---------------------------|--------------------|
| decamethylcyclopentasiloxane | 541-02-6<br>208-764-9 | >= 0,5 - < 1              |                    |

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|                                   |                       |                     |                                         |
|-----------------------------------|-----------------------|---------------------|-----------------------------------------|
| octamethylcyclotetrasiloxane [D4] | 556-67-2<br>209-136-7 | $\geq 0,5 - < 1$    | M-Factor (Chronic aquatic toxicity): 10 |
| dodecamethylcyclohexasiloxane     | 540-97-6<br>208-762-8 | $\geq 0,25 - < 0,5$ |                                         |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Symptoms : No information available.

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

- Treatment : No information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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### 5.2 Special hazards arising from the substance or mixture

- |                                      |   |                                                                           |
|--------------------------------------|---|---------------------------------------------------------------------------|
| Specific hazards during firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products        | : | Carbon oxides<br>Silicon oxides                                           |

### 5.3 Advice for firefighters

- |                                               |   |                                                                                                                                                                                                                         |
|-----------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                  |
| Further information                           | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- |                      |   |                                    |
|----------------------|---|------------------------------------|
| Personal precautions | : | Use personal protective equipment. |
|----------------------|---|------------------------------------|

### 6.2 Environmental precautions

- |                           |   |                                                                                                                                                                                                                                                                   |
|---------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | : | Try to prevent the material from entering drains or water courses.<br><br>Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
|---------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.3 Methods and material for containment and cleaning up

- |                         |   |                                                                                                            |
|-------------------------|---|------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : | Wipe up with absorbent material (e.g. cloth, fleece).<br>Keep in suitable, closed containers for disposal. |
|-------------------------|---|------------------------------------------------------------------------------------------------------------|

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                              |   |                                                                                                                                                                                                   |
|------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling      | : | For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations. |
| Advice on protection against | : | Normal measures for preventive fire protection.                                                                                                                                                   |

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fire and explosion

Hygiene measures : Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name                    | End Use   | Exposure routes | Potential health effects                                                                         | Value     |
|-----------------------------------|-----------|-----------------|--------------------------------------------------------------------------------------------------|-----------|
| octamethylcyclotetrasiloxane [D4] | Consumers | Oral            | Acute systemic effects, Long-term systemic effects                                               | 3,7 mg/kg |
|                                   | Consumers | Inhalation      | Acute systemic effects, Acute local effects, Long-term systemic effects, Long-term local effects | 13 mg/m3  |
|                                   | Workers   | Inhalation      | Acute systemic effects, Acute local effects, Long-term systemic effects, Long-term local effects | 73 mg/m3  |

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name                    | Environmental Compartment | Value       |
|-----------------------------------|---------------------------|-------------|
| octamethylcyclotetrasiloxane [D4] | Fresh water               | 1,5 µg/l    |
|                                   | Marine water              | 0,15 µg/l   |
|                                   | Fresh water sediment      | 0,64 mg/kg  |
|                                   | Soil                      | 0,84 mg/kg  |
|                                   | Sewage treatment plant    | 10 mg/l     |
|                                   | Marine sediment           | 0,064 mg/kg |

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|  |                                           |          |
|--|-------------------------------------------|----------|
|  | Hazard for predators: secondary poisoning | 41 mg/kg |
|--|-------------------------------------------|----------|

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : PVC disposable gloves  
Break through time : 120 min

Remarks : The suitability for a specific workplace should be discussed  
with the producers of the protective gloves.  
Skin and body protection : Impervious clothing  
Choose body protection according to the amount and  
concentration of the dangerous substance at the work place.

#### Environmental exposure controls

General advice : Try to prevent the material from entering drains or water  
courses.  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
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

Physical state : liquid

Colour : light brown

Odour : not significant

Odour Threshold : No data available

Melting point/ range : < 0 °C  
Method: derived

Initial boiling point : > 100 °C  
Method: derived

Upper explosion limit / Upper  
flammability limit : No data available

Lower explosion limit / Lower  
flammability limit : No data available

Flash point : ca. 101 °C  
Method: 49 (Pensky-Martens)

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|                                        |   |                                                                                       |
|----------------------------------------|---|---------------------------------------------------------------------------------------|
| Auto-ignition temperature              | : | > 200 °C<br>Method: M0062 (Analytics Wesel)                                           |
| Decomposition temperature              | : | No data available                                                                     |
| pH                                     | : | 7 (20 °C)<br>Concentration: 1 %<br>Method: Universal pH-value indicator               |
| Viscosity                              |   |                                                                                       |
| Viscosity, dynamic                     | : | ca. 245 mPa.s (20 °C)<br>Method: P/K 20°C                                             |
| Solubility(ies)                        |   |                                                                                       |
| Water solubility                       | : | immiscible                                                                            |
| Solubility in other solvents           | : | No data available                                                                     |
| Partition coefficient: n-octanol/water | : | No data available                                                                     |
| Vapour pressure                        | : | ca. 6,25 hPa<br>Method: derived                                                       |
| Relative density                       | : | No data available                                                                     |
| Density                                | : | ca. 0,985 g/cm <sup>3</sup> (20 °C, 1.013 hPa)<br>Method: 4 (20°C oscillating U-tube) |
| Relative vapour density                | : | No data available                                                                     |

### 9.2 Other information

|                        |   |                     |
|------------------------|---|---------------------|
| Flammability (liquids) | : | Sustains combustion |
| Evaporation rate       | : | No data available   |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

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Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Remarks: No data available

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Serious eye damage/eye irritation

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified due to lack of data.

##### Respiratory sensitisation

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Components:

##### octamethylcyclotetrasiloxane [D4]:

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

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### Germ cell mutagenicity

Not classified due to lack of data.

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Carcinogenicity

Not classified due to lack of data.

#### Product:

Remarks : No data available

### Reproductive toxicity

Not classified due to lack of data.

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### STOT - single exposure

Not classified due to lack of data.

#### Product:

Remarks : No data available

### STOT - repeated exposure

Not classified due to lack of data.

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

Remarks : No data available

### Aspiration toxicity

Not classified due to lack of data.

#### Product:

No data available

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

Not classified due to lack of data.

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

#### Product:

Remarks : No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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

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### Components:

#### **decamethylcyclopentasiloxane:**

Assessment : Substance is persistent, bioaccumulative, and toxic (PBT).  
: Substance is very persistent and very bioaccumulative (vPvB).

#### **octamethylcyclotetrasiloxane [D4]:**

Assessment : Substance is very persistent and very bioaccumulative (vPvB).  
: Substance is persistent, bioaccumulative, and toxic (PBT).

#### **dodecamethylcyclohexasiloxane:**

Assessment : Substance is persistent, bioaccumulative, and toxic (PBT).  
: Substance is very persistent and very bioaccumulative (vPvB).

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |   |         |
|------|---|---------|
| ADR  | : | UN 3082 |
| RID  | : | UN 3082 |
| IMDG | : | UN 3082 |
| IATA | : | UN 3082 |

#### 14.2 UN proper shipping name

|      |   |                                                                       |
|------|---|-----------------------------------------------------------------------|
| ADR  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Siloxanes) |
| RID  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Siloxanes) |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Siloxanes) |
| IATA | : | Environmentally hazardous substance, liquid, n.o.s.<br>(Siloxanes)    |

#### 14.3 Transport hazard class(es)

|      |   |   |
|------|---|---|
| ADR  | : | 9 |
| RID  | : | 9 |
| IMDG | : | 9 |
| IATA | : | 9 |

#### 14.4 Packing group

|                              |                                      |
|------------------------------|--------------------------------------|
| <b>ADR</b>                   |                                      |
| Packing group                | : III                                |
| Classification Code          | : M6                                 |
| Hazard Identification Number | : 90                                 |
| Labels                       | : 9                                  |
| Tunnel restriction code      | : -                                  |
| <b>RID</b>                   |                                      |
| Packing group                | : III                                |
| Classification Code          | : M6                                 |
| Hazard Identification Number | : 90                                 |
| Labels                       | : 9                                  |
| <b>IMDG</b>                  |                                      |
| Packing group                | : III                                |
| Labels                       | : 9                                  |
| EmS Code                     | : F-A, S-F                           |
| Remarks                      | : IMDG Code segregation group - none |

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### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3  
  
Number on list 70:  
decamethylcyclopentasiloxane,  
octamethylcyclotetrasiloxane [D4],  
dodecamethylcyclohexasiloxane  
  
Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.  
  
REACH - Candidate List of Substances of Very High : decamethylcyclopentasiloxane

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Concern for Authorisation (Article 59).

octamethylcyclotetrasiloxane [D4]

dodecamethylcyclohexasiloxane

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

Seveso III: Directive 2012/18/EU of the E2 ENVIRONMENTAL HAZARDS  
European Parliament and of the Council on the  
control of major-accident hazards involving  
dangerous substances.

### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council

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concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |        |
|-------------------|--------|
| Aquatic Chronic 2 | H411   |
| PBT               | EUH440 |
| vPvB              | EUH441 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |

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