



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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TEROSON MS 935 BK

SDS No. : 633724  
V004.0

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

#### 1.1. Product identifier

TEROSON MS 935 BK

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

Intended use:

MS Sealant

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

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Chronic hazards to the aquatic environment

H412 Harmful to aquatic life with long lasting effects.

Category 3

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard statement:** H412 Harmful to aquatic life with long lasting effects.

**Supplemental information** Contains: Trimethoxyvinylsilane May produce an allergic reaction.

**Precautionary statement:** P273 Avoid release to the environment.  
**Prevention**

### 2.3. Other hazards

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.   | Concentration   | Classification  | Specific Conc. Limits, M-factors and ATEs  | Add. Information |
|---|-----------------|---|--|------------------|
| Trimethoxyvinylsilane<br>2768-02-7<br>220-449-8<br>01-2119513215-52   | 0,1- < 1 %      | Flam. Liq. 3, H226<br>Acute Tox. 4, Inhalation, H332<br>STOT RE 2, H373<br>Skin Sens. 1B, H317                                    |  |                  |
| methanol<br>67-56-1<br>200-659-6<br>01-2119433307-44  | 0,1- < 1 %      | Flam. Liq. 2, H225<br>Acute Tox. 3, Inhalation, H331<br>Acute Tox. 3, Dermal, H311<br>Acute Tox. 3, Oral, H301<br>STOT SE 1, H370 | STOT SE 1; H370; C $\geq$ 10 %<br>STOT SE 2; H371; C 3 - < 10 %<br>=====<br>oral:ATE = 300 mg/kg | EU OEL           |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9<br>258-207-9<br>01-2119537297-32                              | 0,1- < 1 %      | Repr. 2, H361f<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411<br>Aquatic Acute 1, H400  | M acute = 1  |                  |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2<br>253-039-2<br>01-2119956160-44 | 0,025- < 0,25 % | Aquatic Chronic 1, H410   | M chronic = 10   |                  |

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Move to fresh air, consult doctor if complaint persists.

#### Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

#### Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

#### Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

An allergic reaction cannot be excluded after repeated skin contact.

**4.3. Indication of any immediate medical attention and special treatment needed**

See section: Description of first aid measures

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

All common extinguishing agents are suitable.

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**

In case of fire toxic gases can be released.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus.

Wear protective equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

**7.2. Conditions for safe storage, including any incompatibilities**

Ensure good ventilation/extraction.

Temperatures between + 10 °C and + 25 °C

**7.3. Specific end use(s)**

MS Sealant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Germany

| Ingredient [Regulated substance]  | ppm | mg/m <sup>3</sup> | Value type                          | Short term exposure limit category / Remarks   | Regulatory list |
|-----------------------------------|-----|-------------------|-------------------------------------|--|-----------------|
| Calcium carbonate<br>471-34-1     |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Calcium carbonate<br>471-34-1     |     | 10                | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |
| Calcium carbonate<br>471-34-1     |     | 1,25              | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).      | TRGS 900        |
| Carbon black<br>1333-86-4         |     | 1,25              | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).      | TRGS 900        |
| Carbon black<br>1333-86-4         |     | 10                | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |
| Carbon black<br>1333-86-4         |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Methanol<br>67-56-1<br>[METHANOL] | 200 | 260               | Time Weighted Average (TWA):        | Indicative   | ECLTV           |
| Methanol<br>67-56-1               |     |                   | Skin designation:                   | Can be absorbed through the skin.  | TRGS 900        |
| Methanol<br>67-56-1               |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Methanol<br>67-56-1               | 100 | 130               | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |

**Predicted No-Effect Concentration (PNEC):**

| Name on list   | Environmental Compartment          | Exposure period | Value           |     |            |        | Remarks              |
|--|------------------------------------|-----------------|-----------------|-----|------------|--------|----------------------|
|  |                                    |                 | mg/l            | ppm | mg/kg      | others |                      |
| Trimethoxyvinylsilane<br>2768-02-7   | aqua<br>(freshwater)               |                 | 0,4 mg/l        |     |            |        |                      |
| Trimethoxyvinylsilane<br>2768-02-7   | aqua (marine<br>water)             |                 | 0,04 mg/l       |     |            |        |                      |
| Trimethoxyvinylsilane<br>2768-02-7   | Freshwater -<br>intermittent       |                 | 1,21 mg/l       |     |            |        |                      |
| Trimethoxyvinylsilane<br>2768-02-7   | sediment<br>(freshwater)           |                 |                 |     | 1,5 mg/kg  |        |                      |
| Trimethoxyvinylsilane<br>2768-02-7   | sediment<br>(marine water)         |                 |                 |     | 0,15 mg/kg |        |                      |
| Trimethoxyvinylsilane<br>2768-02-7   | Soil                               |                 |                 |     | 0,06 mg/kg |        |                      |
| methanol<br>67-56-1  | aqua<br>(freshwater)               |                 |                 |     |            |        | no hazard identified |
| methanol<br>67-56-1  | sediment<br>(freshwater)           |                 |                 |     |            |        | no hazard identified |
| methanol<br>67-56-1  | aqua (marine<br>water)             |                 |                 |     |            |        | no hazard identified |
| methanol<br>67-56-1  | Soil                               |                 |                 |     |            |        | no hazard identified |
| methanol<br>67-56-1  | sewage<br>treatment plant<br>(STP) |                 |                 |     |            |        | no hazard identified |
| methanol<br>67-56-1  | aqua<br>(intermittent<br>releases) |                 |                 |     |            |        | no hazard identified |
| methanol<br>67-56-1  | sediment<br>(marine water)         |                 |                 |     |            |        | no hazard identified |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | aqua<br>(freshwater)               |                 | 0,004 mg/l      |     |            |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | aqua (marine<br>water)             |                 | 0,00038<br>mg/l |     |            |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | Freshwater -<br>intermittent       |                 | 0,007 mg/l      |     |            |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | sediment<br>(freshwater)           |                 |                 |     | 5,9 mg/kg  |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | sediment<br>(marine water)         |                 |                 |     | 0,59 mg/kg |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | Soil                               |                 |                 |     | 1,18 mg/kg |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | sewage<br>treatment plant<br>(STP) |                 | 1 mg/l          |     |            |        |                      |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-<br>4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | sewage<br>treatment plant<br>(STP) |                 | 1 mg/l          |     |            |        |                      |

**Derived No-Effect Level (DNEL):**

| Name on list  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value                  | Remarks              |
|---|--------------------|-------------------|--|---------------|------------------------|----------------------|
| Trimethoxyvinylsilane<br>2768-02-7                          | Workers            | dermal            | Long term exposure - systemic effects        |               | 0,91 mg/kg             |                      |
| Trimethoxyvinylsilane<br>2768-02-7                          | Workers            | inhalation        | Long term exposure - systemic effects        |               | 27,6 mg/m <sup>3</sup> |                      |
| Trimethoxyvinylsilane<br>2768-02-7                          | General population | dermal            | Long term exposure - systemic effects        |               | 0,63 mg/kg             |                      |
| Trimethoxyvinylsilane<br>2768-02-7                          | General population | inhalation        | Long term exposure - systemic effects        |               | 6,8 mg/m <sup>3</sup>  |                      |
| Trimethoxyvinylsilane<br>2768-02-7                          | General population | oral              | Long term exposure - systemic effects        |               | 0,63 mg/kg             |                      |
| Trimethoxyvinylsilane<br>2768-02-7                          | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 73,6 mg/m <sup>3</sup> |                      |
| Trimethoxyvinylsilane<br>2768-02-7                          | General population | inhalation        | Acute/short term exposure - systemic effects |               | 54,4 mg/m <sup>3</sup> |                      |
| methanol<br>67-56-1   | Workers            | inhalation        | Long term exposure - systemic effects        |               | 260 mg/m <sup>3</sup>  | no hazard identified |
| methanol<br>67-56-1   | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 260 mg/m <sup>3</sup>  | no hazard identified |
| methanol<br>67-56-1   | Workers            | inhalation        | Long term exposure - local effects           |               | 260 mg/m <sup>3</sup>  | no hazard identified |
| methanol<br>67-56-1   | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 260 mg/m <sup>3</sup>  | no hazard identified |
| methanol<br>67-56-1   | Workers            | dermal            | Long term exposure - systemic effects        |               | 40 mg/kg               | no hazard identified |
| methanol<br>67-56-1   | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 40 mg/kg               | no hazard identified |
| methanol<br>67-56-1   | General population | inhalation        | Long term exposure - systemic effects        |               | 50 mg/m <sup>3</sup>   | no hazard identified |
| methanol<br>67-56-1   | General population | inhalation        | Acute/short term exposure - systemic effects |               | 50 mg/m <sup>3</sup>   | no hazard identified |
| methanol<br>67-56-1   | General population | inhalation        | Long term exposure - local effects           |               | 50 mg/m <sup>3</sup>   | no hazard identified |
| methanol<br>67-56-1   | General population | inhalation        | Acute/short term exposure - local effects    |               | 50 mg/m <sup>3</sup>   | no hazard identified |
| methanol<br>67-56-1   | General population | dermal            | Long term exposure - systemic effects        |               | 8 mg/kg                | no hazard identified |
| methanol<br>67-56-1   | General population | dermal            | Acute/short term exposure - systemic effects |               | 8 mg/kg                | no hazard identified |
| methanol<br>67-56-1   | General population | oral              | Long term exposure - systemic effects        |               | 8 mg/kg                | no hazard identified |
| methanol<br>67-56-1   | General population | oral              | Acute/short term exposure - systemic effects |               | 8 mg/kg                | no hazard identified |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | Workers            | dermal            | Long term exposure - systemic effects        |               | 1,8 mg/kg              |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | Workers            | Inhalation        | Long term exposure - systemic effects        |               | 1,27 mg/m <sup>3</sup> |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | General population | Inhalation        | Long term exposure -                         |               | 0,31 mg/m <sup>3</sup> |                      |

|  |                    |            | systemic effects                      |  |                        |  |
|--|--------------------|------------|---------------------------------------|--|------------------------|--|
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | General population | dermal     | Long term exposure - systemic effects |  | 0,9 mg/kg              |  |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | General population | oral       | Long term exposure - systemic effects |  | 0,18 mg/kg             |  |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | Workers            | inhalation | Long term exposure - systemic effects |  | 23,5 mg/m <sup>3</sup> |  |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | Workers            | dermal     | Long term exposure - systemic effects |  | 6,7 mg/kg              |  |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | General population | dermal     | Long term exposure - systemic effects |  | 3,3 mg/kg              |  |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | General population | oral       | Long term exposure - systemic effects |  | 3,3 mg/kg              |  |
| Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | General population | inhalation | Long term exposure - systemic effects |  | 5,8 mg/m <sup>3</sup>  |  |

### Biological Exposure Indices:

| Ingredient [Regulated substance]  | Parameters | Biological specimen | Sampling time  | Conc.   | Basis of biol. exposure index | Remark | Additional Information |
|-----------------------------------|------------|---------------------|--|---------|-------------------------------|--------|------------------------|
| Methanol<br>67-56-1<br>[METHANOL] | methanol   | Urine               | Sampling time period is for long-term exposures, at the end of the shift after several preceding ones./ Sampling time period is at end of exposure or at end of shift. | 15 mg/l | DE BGW                        |        |                        |

### 8.2. Exposure controls:

Engineering controls:  
Ensure good ventilation/extraction.

Respiratory protection:  
The product should only be used at workplaces with intensive ventilation/extraction.  
If intensive ventilation/extraction is not possible respiratory protection equipment with ABEK P2 filter (EN 14387) should be worn.

Hand protection:  
Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:  
Protective goggles  
Protective eye equipment should conform to EN166.

Skin protection:  
Wear protective equipment.  
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state  | solid   |
| Delivery form   | paste   |
| Colour  | black   |
| Odor  | alcohol-like  |
| Melting point   | Not applicable, Determination technically not possible  |
| Solidification temperature                                  | Not applicable, Product is a solid.   |
| Initial boiling point                                       | > 250 °C (> 482 °F)   |
| Flammability  | The product is not flammable.   |
| Explosive limits  | Not applicable, Product is a solid.   |
| Flash point   | Not applicable, Product is a solid.   |
| Auto-ignition temperature                                   | Not applicable, Product is a solid.   |
| Decomposition temperature                                   | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH  | Not applicable, Product reacts with water.  |
| Viscosity (kinematic)                                       | Not applicable, Product is a solid.   |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Reacts with water.  |
| Partition coefficient: n-octanol/water                      | Not applicable  |
| Vapour pressure<br>(20 °C (68 °F))                          | Mixture<br>< 0,1 hPa  |
| Density<br>(20 °C (68 °F))                                  | 1,46 g/cm <sup>3</sup>  |
| Bulk density  | 1,46 g/cm <sup>3</sup>  |
| Relative vapour density:                                    | Not applicable, Product is a solid.   |
| Particle size   | Not applicable, mixture is a paste.   |
| Particle characteristics                                    | Not applicable, mixture is a paste.   |

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.



**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

No decomposition if used according to specifications.

**SECTION 11: Toxicological information****General toxicological information:**

An allergic reaction cannot be excluded after repeated skin contact.

**1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type                          | Value         | Species | Method   |
|---|--|---------------|---------|--|
| Trimethoxyvinylsilane<br>2768-02-7  | LD50                                   | 7.120 mg/kg   | rat     | OECD Guideline 401 (Acute Oral Toxicity)                             |
| methanol<br>67-56-1   | Acute<br>toxicity<br>estimate<br>(ATE) | 300 mg/kg     |         | Expert judgement   |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9                                     | LD50                                   | 3.700 mg/kg   | rat     | OECD Guideline 423 (Acute Oral toxicity)                             |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-<br>hydroxy-m-<br>tolyl)propionate]<br>36443-68-2 | LD50                                   | > 7.000 mg/kg | rat     | equivalent or similar to OECD Guideline 423 (Acute Oral<br>toxicity) |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value         | Species | Method                                     |
|---|---------------|---------------|---------|--|
| Trimethoxyvinylsilane<br>2768-02-7  | LD50          | 3.200 mg/kg   | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity) |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9                                     | LD50          | > 3.170 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-<br>hydroxy-m-<br>tolyl)propionate]<br>36443-68-2 | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.    | Value<br>type | Value     | Test atmosphere | Exposure<br>time | Species | Method   |
|------------------------------------|---------------|-----------|-----------------|------------------|---------|--|
| Trimethoxyvinylsilane<br>2768-02-7 | LC50          | 16,8 mg/l | vapour          | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Result         | Exposure<br>time | Species | Method  |
|--|----------------|------------------|---------|---|
| Trimethoxyvinylsilane<br>2768-02-7   | not irritating |                  | rabbit  | other guideline:  |
| methanol<br>67-56-1  | not irritating | 20 h             | rabbit  | BASF Test   |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | not irritating | 24 h             | rabbit  | EPA OPP 81-5 (Acute Dermal Irritation)  |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | not irritating | 24 h             | rabbit  | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Result         | Exposure<br>time | Species | Method  |
|--|----------------|------------------|---------|---|
| Trimethoxyvinylsilane<br>2768-02-7   | not irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| methanol<br>67-56-1  | not irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | corrosive      | 24 h             | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | not irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Result          | Test type                    | Species    | Method   |
|--|-----------------|------------------------------|------------|--|
| Trimethoxyvinylsilane<br>2768-02-7   | sensitising     | Buehler test                 | guinea pig | OECD Guideline 406 (Skin Sensitisation)                          |
| methanol<br>67-56-1  | not sensitising | Guinea pig maximisation test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation)                          |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | not sensitising | Guinea pig maximisation test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.                                | Result   | Type of study / Route of administration          | Metabolic activation / Exposure time | Species | Method   |
|---|----------|--|--------------------------------------|---------|--|
| Trimethoxyvinylsilane<br>2768-02-7                          | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                     |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)                                    |
| Trimethoxyvinylsilane<br>2768-02-7                          | positive | in vitro mammalian chromosome aberration test    | with and without                     |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)                       |
| Trimethoxyvinylsilane<br>2768-02-7                          | negative | mammalian cell gene mutation assay               | with and without                     |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)                          |
| methanol<br>67-56-1   | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                     |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)                                    |
| methanol<br>67-56-1   | negative | in vitro mammalian cell micronucleus test        | without                              |         | not specified  |
| methanol<br>67-56-1   | negative | mammalian cell gene mutation assay               | with and without                     |         | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                     |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)                                    |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | negative | in vitro mammalian chromosome aberration test    | with and without                     |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)                       |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | negative | mammalian cell gene mutation assay               | with and without                     |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)                          |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result           | Route of application  | Exposure time / Frequency of treatment | Species | Sex         | Method   |
|------------------------------|------------------|-----------------------|--|---------|-------------|--|
| methanol<br>67-56-1          | not carcinogenic | inhalation:<br>vapour | 18 m<br>19 h/d                         | mouse   | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                 | Result / Value   | Test type                   | Route of<br>application | Species | Method  |
|---|--|-----------------------------|-------------------------|---------|---|
| Trimethoxyvinylsilane<br>2768-02-7                              | NOAEL P 250 mg/kg  | one-<br>generation<br>study | oral: gavage            | rat     | OECD Combined Repeated<br>Dose and Reproductive /<br>Developmental Toxicity<br>Screening Test (Precursor<br>Protocol of GL 422) |
| Trimethoxyvinylsilane<br>2768-02-7                              | NOAEL P 1.000 mg/kg  | one-<br>generation<br>study | oral: gavage            | rat     | OECD Combined Repeated<br>Dose and Reproductive /<br>Developmental Toxicity<br>Screening Test (Precursor<br>Protocol of GL 422) |
| Trimethoxyvinylsilane<br>2768-02-7                              | NOAEL F1 1.000 mg/kg   | one-<br>generation<br>study | oral: gavage            | rat     | OECD Combined Repeated<br>Dose and Reproductive /<br>Developmental Toxicity<br>Screening Test (Precursor<br>Protocol of GL 422) |
| methanol<br>67-56-1   | NOAEL P 1,3 mg/l<br>NOAEL F1 0,13 mg/l<br>NOAEL F2 0,13 mg/l | Two<br>generation<br>study  | inhalation              | rat     | equivalent or similar to<br>OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                              |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9 | NOAEL P 109 mg/kg<br>NOAEL F1 121 mg/kg                      | two-<br>generation<br>study | oral: feed              | rat     | OECD Guideline 443<br>(Extended One-Generation<br>Reproductive Toxicity<br>Study)   |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                 | Result / Value     | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method  |
|---|--------------------|-------------------------|--|---------|---|
| Trimethoxyvinylsilane<br>2768-02-7                              | NOAEL < 62,5 mg/kg | oral: gavage            | 42d<br>daily                                 | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Trimethoxyvinylsilane<br>2768-02-7                              | NOAEL 0,605 mg/l   | inhalation:<br>vapour   | 5 days/week for 14<br>weeks<br>6 hours/day   | rat     | not specified   |
| methanol<br>67-56-1   | NOAEL 6,63 mg/l    | inhalation:<br>vapour   | 4 weeks<br>6 h/d, 5 d/w                      | rat     | equivalent or similar to<br>OECD Guideline 412<br>(Repeated Dose<br>Inhalation Toxicity:<br>28/14-Day)                                  |
| methanol<br>67-56-1   | NOAEL 0,13 mg/l    | inhalation:<br>vapour   | 12 m<br>20 h/d                               | rat     | equivalent or similar to<br>OECD Guideline 453<br>(Combined Chronic<br>Toxicity / Carcinogenicity<br>Studies)                           |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9 | NOAEL 36 mg/kg     | oral: feed              | daily  | rat     | other guideline:  |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains, soil or bodies of water.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Value type | Value                       | Exposure time | Species             | Method  |
|--|------------|-----------------------------|---------------|---------------------|---|
| Trimethoxyvinylsilane<br>2768-02-7   | LC50       | 191 mg/l                    | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test)  |
| methanol<br>67-56-1  | LC50       | 15.400 mg/l                 | 96 h          | Lepomis macrochirus | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| methanol<br>67-56-1  | NOEC       | 7.900 mg/l                  | 200 h         | Oryzias latipes     | OECD Guideline 210 (fish early lite stage toxicity test)                                |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | LC50       | 4,4 mg/l                    | 96 h          | Lepomis macrochirus | OECD Guideline 203 (Fish, Acute Toxicity Test)  |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | LC50       | Toxicity > Water solubility | 96 h          | Lepomis macrochirus | OECD Guideline 203 (Fish, Acute Toxicity Test)  |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | NOEC       | 0,0088 mg/l                 | 32 d          | Pimephales promelas | OECD Guideline 210 (fish early lite stage toxicity test)                                |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Value type | Value                       | Exposure time | Species       | Method   |
|--|------------|-----------------------------|---------------|---------------|--|
| Trimethoxyvinylsilane<br>2768-02-7   | EC50       | 168,7 mg/l                  | 48 h          | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia)                 |
| methanol<br>67-56-1  | EC50       | 18.260 mg/l                 | 96 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | EC50       | 8,58 mg/l                   | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | EC50       | Toxicity > Water solubility | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Value type | Value       | Exposure time | Species       | Method                                      |
|--|------------|-------------|---------------|---------------|---|
| Trimethoxyvinylsilane<br>2768-02-7   | NOEC       | 28,1 mg/l   | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                              | NOEC       | 0,23 mg/l   | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]<br>36443-68-2 | NOEC       | 0,0055 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value                          | Exposure time | Species   | Method   |
|---|---------------|--------------------------------|---------------|---|--|
| Trimethoxyvinylsilane<br>2768-02-7  | EC50          | > 957 mg/l                     | 72 h          | Desmodesmus subspicatus   | EU Method C.3 (Algal<br>Inhibition test)             |
| Trimethoxyvinylsilane<br>2768-02-7  | NOEC          | 957 mg/l                       | 72 h          | Desmodesmus subspicatus   | EU Method C.3 (Algal<br>Inhibition test)             |
| methanol<br>67-56-1   | EC50          | 22.000 mg/l                    | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9                                 | EC50          | 0,705 mg/l                     | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9                                 | EC10          | 0,188 mg/l                     | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-hydroxy-<br>m-tolyl)propionate]<br>36443-68-2 | EC50          | Toxicity > Water<br>solubility | 72 h          | Raphidocelis subcapitata (new<br>name: Pseudokirchneriella<br>subcapitata)  | EU Method C.3 (Algal<br>Inhibition test)             |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-hydroxy-<br>m-tolyl)propionate]<br>36443-68-2 | EC10          | Toxicity > Water<br>solubility | 72 h          | Raphidocelis subcapitata (new<br>name: Pseudokirchneriella<br>subcapitata)  | EU Method C.3 (Algal<br>Inhibition test)             |

### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value                          | Exposure time | Species  | Method   |
|---|---------------|--------------------------------|---------------|--|--|
| Trimethoxyvinylsilane<br>2768-02-7  | EC50          | > 100 mg/l                     | 3 h           | activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| methanol<br>67-56-1   | IC50          | > 1.000 mg/l                   | 3 h           | activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9                                 | EC50          | > 100 mg/l                     | 3 h           | activated sludge, domestic                             | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-hydroxy-<br>m-tolyl)propionate]<br>36443-68-2 | IC50          | Toxicity > Water<br>solubility | 3 h           | activated sludge, domestic                             | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |

### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.   | Result                     | Test type | Degradability | Exposure<br>time | Method  |
|---|----------------------------|-----------|---------------|------------------|---|
| Trimethoxyvinylsilane<br>2768-02-7  | not readily biodegradable. | aerobic   | 51 %          | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry Test)           |
| methanol<br>67-56-1   | readily biodegradable      | aerobic   | 82 - 92 %     | 30 d             | EU Method C.4-E (Determination<br>of the "Ready"<br>Biodegradability Closed Bottle<br>Test) |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9                                 | not readily biodegradable. | aerobic   | 24 %          | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)                     |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-hydroxy-<br>m-tolyl)propionate]<br>36443-68-2 | not readily biodegradable. | aerobic   | 8 %           | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)                     |

### 12.3. Bioaccumulative potential

| Hazardous substances<br>CAS-No.   | Bioconcentration factor (BCF) | Exposure time | Temperature | Species                     | Method   |
|---|-------------------------------|---------------|-------------|-----------------------------|--|
| methanol<br>67-56-1   | < 10                          | 72 h          |             | Leuciscus idus<br>melanotus | not specified  |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-hydroxy-<br>m-tolyl)propionate]<br>36443-68-2 | > 0,11 - 2,45                 | 56 d          |             | Cyprinus carpio             | OECD Guideline 305 C<br>(Bioaccumulation: Test for the<br>Degree of Bioconcentration in<br>Fish) |

#### 12.4. Mobility in soil

| Hazardous substances<br>CAS-No.   | LogPow | Temperature | Method  |
|---|--------|-------------|---|
| methanol<br>67-56-1   | -0,77  |             | other guideline:  |
| Bis(2,2,6,6-tetramethyl-4-<br>piperidyl) sebacate<br>52829-07-9                                 | 0,35   | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake<br>Flask Method) |
| ethylenebis(oxyethylene)<br>bis[3-(5-tert-butyl-4-hydroxy-<br>m-tolyl)propionate]<br>36443-68-2 | 4,7    | 23 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC<br>Method)        |

#### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No.  | PBT / vPvB   |
|--|--|
| Trimethoxyvinylsilane<br>2768-02-7   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| methanol<br>67-56-1  | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9                                  | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-<br>hydroxy-m-tolyl)propionate]<br>36443-68-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09.



### SECTION 14: Transport information

- 14.1. UN number or ID number**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Maritime transport in bulk according to IMO instruments**  
not applicable

### SECTION 15: Regulatory information

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

|   |                |
|---|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |
| VOC content<br>(2010/75/EU)                                     | 1,6 %          |

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**National regulations/information (Germany):**

|                                      |   |
|--------------------------------------|---|
| WGK:                                 | WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )<br>Classification according to AwSV, Annex 1 (5.2) |
| Storage class according to TRGS 510: | 11  |

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H301 Toxic if swallowed.  
 H311 Toxic in contact with skin.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H361f Suspected of damaging fertility.  
 H370 Causes damage to organs.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.

|             |   |
|-------------|---|
| ED:         | Substance identified as having endocrine disrupting properties  |
| EU OEL:     | Substance with a Union workplace exposure limit   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148   |
| EU EXPLD 2: | Substance listed in Annex II, Reg (EC) No. 2019/1148  |
| SVHC:       | Substance of very high concern (REACH Candidate List)   |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria   |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria  |

### Further information:

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