



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

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Pattex Repair Xtreme

SDS No. : 583429  
V008.0

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

#### 1.1. Product identifier

Pattex Repair Xtreme

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

Intended use:

1-Component reaction adhesive (except super glue)

#### 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.

Further information is available at Poison Control Centers.

### SECTION 2: Hazards identification

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

##### Classification (CLP):

Skin sensitizer

H317 May cause an allergic skin reaction.

Category 1

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



Contains

Trimethoxyvinylsilane

N-(3-(Trimethoxysilyl)propyl)ethylenediamine

|  |   |
|--|---|
| <b>Signal word:</b>                          | Warning   |
| <b>Hazard statement:</b>                     | H317 May cause an allergic skin reaction.   |
| <b>Precautionary statement:</b>              | P102 Keep out of reach of children.<br>P101 If medical advice is needed, have product container or label at hand.<br>P261 Avoid breathing mist/vapours.<br>P280 Wear protective gloves. |
| <b>Precautionary statement:<br/>Response</b> | P302+P352 IF ON SKIN: Wash with plenty of soap and water.   |
| <b>Precautionary statement:<br/>Disposal</b> | P501 Dispose of contents/container in accordance with national regulation.  |

### 2.3. Other hazards

Evolves methanol during cure.

**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 |
|--|---------------|---|--|------------------|
| Siloxanes and Silicones, methoxy vinyl<br>131298-48-1  | 5- < 10 %     | Eye Irrit. 2, H319  |  |                  |
| N-(3-(Trimethoxysilyl)propyl)ethylene diamine<br>1760-24-3<br>217-164-6<br>01-2119970215-39  | 0,1- < 1 %    | Skin Sens. 1A, H317<br>Eye Dam. 1, H318<br>Acute Tox. 4, Inhalation, H332<br>STOT RE 2, Inhalation, H373                          | inhalation:ATE = 1,49 mg/l;dust/mist   |                  |
| 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>Skin Sens. 1B, H317   |  |                  |
| 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  |                  |
| 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 >= 10 %<br>STOT SE 2; H371; C 3 - < 10 %<br>=====<br>dermal:ATE = 300 mg/kg<br>oral:ATE = 300 mg/kg | EU OEL           |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2<br>229-713-7<br>01-2119977097-24             | 0,1- < 1 %    | Acute Tox. 3, Oral, H301<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Met. Corr. 1, H290   | oral:ATE = 215 mg/kg   |                  |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.  
For full text of the H - statements and other abbreviations see section 16 "Other information".

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

General information:

In case of adverse health effects seek medical advice.

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:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

May cause an allergic skin reaction.

**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:**

carbon dioxide, foam, powder, water spray jet, fine water spray

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

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) 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.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Danger of slipping on spilled product.

**6.2. Environmental precautions**

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

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

**Hygiene measures:**

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Store in sealed original container.

Recommended storage temperature 5 to 35°C at 50 % relative humidity.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

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

1-Component reaction adhesive (except super glue)

**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 |
|-----------------------------------|-----|-------------------|-------------------------------------|--|-----------------|
| Silicon dioxide<br>112945-52-5    |     | 4                 | 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        |
| Silicon dioxide<br>112945-52-5    |     | 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        |
| Silicon dioxide<br>112945-52-5    |     | 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        |
| Silicon dioxide<br>112945-52-5    |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Silicon dioxide<br>112945-52-5    |     | 4                 | 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        |
| Silicon dioxide<br>112945-52-5    |     | 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        |
| Silicon dioxide<br>112945-52-5    |     | 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        |
| Silicon dioxide<br>112945-52-5    |     |                   | 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               | 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        |
| methanol<br>67-56-1               |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| methanol<br>67-56-1<br>[Methanol] |     |                   | Skin designation:                   | Can be absorbed through the skin.  | ECLTV           |

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

| Name on list   | Environmental Compartment    | Exposure period | Value        |     |             |        | Remarks              |
|--|------------------------------|-----------------|--------------|-----|-------------|--------|----------------------|
|  |                              |                 | mg/l         | ppm | mg/kg       | others |                      |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3   | aqua (freshwater)            |                 | 0,05 mg/l    |     |             |        |                      |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3   | aqua (marine water)          |                 | 0,005 mg/l   |     |             |        |                      |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3   | Freshwater - intermittent    |                 | 0,072 mg/l   |     |             |        |                      |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3   | sediment (freshwater)        |                 |              |     | 0,181 mg/kg |        |                      |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3   | sediment (marine water)      |                 |              |     | 0,018 mg/kg |        |                      |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3   | Soil                         |                 |              |     | 0,007 mg/kg |        |                      |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3   | sewage treatment plant (STP) |                 | 20 mg/l      |     |             |        |                      |
| Trimethoxyvinylsilane 2768-02-7                          | aqua (freshwater)            |                 | 0,4 mg/l     |     |             |        |                      |
| Trimethoxyvinylsilane 2768-02-7                          | aqua (marine water)          |                 | 0,04 mg/l    |     |             |        |                      |
| Trimethoxyvinylsilane 2768-02-7                          | Freshwater - intermittent    |                 | 1,21 mg/l    |     |             |        |                      |
| Trimethoxyvinylsilane 2768-02-7                          | sediment (freshwater)        |                 |              |     | 1,5 mg/kg   |        |                      |
| Trimethoxyvinylsilane 2768-02-7                          | sediment (marine water)      |                 |              |     | 0,15 mg/kg  |        |                      |
| Trimethoxyvinylsilane 2768-02-7                          | Soil                         |                 |              |     | 0,06 mg/kg  |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | aqua (freshwater)            |                 | 0,004 mg/l   |     |             |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | aqua (marine water)          |                 | 0,00038 mg/l |     |             |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | Freshwater - intermittent    |                 | 0,007 mg/l   |     |             |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | sediment (freshwater)        |                 |              |     | 5,9 mg/kg   |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | sediment (marine water)      |                 |              |     | 0,59 mg/kg  |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | Soil                         |                 |              |     | 1,18 mg/kg  |        |                      |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | sewage treatment plant (STP) |                 | 1 mg/l       |     |             |        |                      |
| methanol 67-56-1   | aqua (freshwater)            |                 |              |     |             |        | no hazard identified |
| methanol 67-56-1   | sediment (freshwater)        |                 |              |     |             |        | no hazard identified |
| methanol 67-56-1   | aqua (marine water)          |                 |              |     |             |        | no hazard identified |
| methanol 67-56-1   | Soil                         |                 |              |     |             |        | no hazard identified |
| methanol 67-56-1   | sewage treatment plant (STP) |                 |              |     |             |        | no hazard identified |
| methanol 67-56-1   | aqua (intermittent releases) |                 |              |     |             |        | no hazard identified |
| methanol 67-56-1   | sediment (marine water)      |                 |              |     |             |        | no hazard identified |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene 6674-22-2             | aqua (freshwater)            |                 | 0,24 mg/l    |     |             |        |                      |

|   |                              |  |            |  |             |  |  |
|---|------------------------------|--|------------|--|-------------|--|--|
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | aqua (marine water)          |  | 0,024 mg/l |  |             |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | aqua (intermittent releases) |  | 0,5 mg/l   |  |             |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | sewage treatment plant (STP) |  | 13 mg/l    |  |             |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | sediment (freshwater)        |  |            |  | 1,46 mg/kg  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | sediment (marine water)      |  |            |  | 0,146 mg/kg |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | Soil                         |  |            |  | 0,152 mg/kg |  |  |

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

| Name on list   | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value                   | Remarks |
|--|--------------------|-------------------|--|---------------|-------------------------|---------|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers            | inhalation        | Long term exposure - systemic effects        |               | 130 mg/m <sup>3</sup>   |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 5,36 mg/m <sup>3</sup>  |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation        | Long term exposure - systemic effects        |               | 26 mg/m <sup>3</sup>    |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | oral              | Long term exposure - systemic effects        |               | 4 mg/kg                 |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation        | Acute/short term exposure - local effects    |               | 4 mg/m <sup>3</sup>     |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers            | inhalation        | Long term exposure - local effects           |               | 0,6 mg/m <sup>3</sup>   |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation        | Long term exposure - local effects           |               | 0,1 mg/m <sup>3</sup>   |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation        | Acute/short term exposure - systemic effects |               | 26400 mg/m <sup>3</sup> |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers            | dermal            | Long term exposure - local effects           |               |                         |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers            | dermal            | Acute/short term exposure - local effects    |               |                         |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | dermal            | Long term exposure - local effects           |               |                         |         |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | dermal            | Acute/short term exposure - local effects    |               |                         |         |
| Trimethoxyvinylsilane 2768-02-7                        | Workers            | dermal            | Long term exposure - systemic effects        |               | 0,91 mg/kg              |         |
| Trimethoxyvinylsilane 2768-02-7                        | Workers            | inhalation        | Long term exposure - systemic effects        |               | 27,6 mg/m <sup>3</sup>  |         |
| Trimethoxyvinylsilane 2768-02-7                        | General population | dermal            | Long term exposure - systemic effects        |               | 0,63 mg/kg              |         |
| Trimethoxyvinylsilane 2768-02-7                        | General population | inhalation        | Long term exposure - systemic effects        |               | 6,8 mg/m <sup>3</sup>   |         |
| Trimethoxyvinylsilane 2768-02-7                        | General population | oral              | Long term exposure - systemic effects        |               | 0,63 mg/kg              |         |
| Trimethoxyvinylsilane 2768-02-7                        | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 73,6 mg/m <sup>3</sup>  |         |
| Trimethoxyvinylsilane 2768-02-7                        | General population | inhalation        | Acute/short term exposure - systemic effects |               | 54,4 mg/m <sup>3</sup>  |         |
| Trimethoxyvinylsilane 2768-02-7                        | Workers            | dermal            | Long term exposure - local effects           |               |                         |         |
| Trimethoxyvinylsilane 2768-02-7                        | Workers            | dermal            | Acute/short term exposure - local effects    |               |                         |         |
| Trimethoxyvinylsilane 2768-02-7                        | General population | dermal            | Long term exposure - local effects           |               |                         |         |
| Trimethoxyvinylsilane 2768-02-7                        | General population | dermal            | Acute/short term exposure - local effects    |               |                         |         |

|   |                    |            | effects                                      |  |                        |                      |
|---|--------------------|------------|--|--|------------------------|----------------------|
| 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 - systemic effects        |  | 0,31 mg/m <sup>3</sup> |                      |
| 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             |                      |
| 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 |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | Workers            | inhalation | Long term exposure - systemic effects        |  | 10,6 mg/m <sup>3</sup> |                      |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | Workers            | dermal     | Long term exposure - systemic effects        |  | 3 mg/kg                |                      |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | General population | inhalation | Long term exposure - systemic effects        |  | 2,6 mg/m <sup>3</sup>  |                      |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | General population | dermal     | Long term exposure - systemic effects        |  | 1,5 mg/kg              |                      |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | General population | oral       | Long term exposure - systemic effects        |  | 1,5 mg/kg              |                      |

|   |                    |            |  |  |  |  |
|---|--------------------|------------|--|--|--|--|
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | Workers            | inhalation | Acute/short term exposure - systemic effects |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | Workers            | inhalation | Long term exposure - local effects           |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | Workers            | inhalation | Acute/short term exposure - local effects    |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | Workers            | dermal     | Long term exposure - local effects           |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | Workers            | dermal     | Acute/short term exposure - local effects    |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | General population | inhalation | Acute/short term exposure - systemic effects |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | General population | inhalation | Long term exposure - local effects           |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | General population | inhalation | Acute/short term exposure - local effects    |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | General population | dermal     | Long term exposure - local effects           |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | General population | dermal     | Acute/short term exposure - local effects    |  |  |  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2 | General population | oral       | Acute/short term exposure - systemic effects |  |  |  |

**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:**

Respiratory protection:  
Suitable breathing mask when there is inadequate ventilation.  
Filter : AX (EN 14387)  
This recommendation should be matched to local conditions.

**Hand protection:**

Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.  
material thickness > 0.4 mm  
Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:  
Goggles which can be tightly sealed.  
Protective eye equipment should conform to EN166.

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

Advices to personal protection equipment:  
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

|   |   |
|---|---|
| Delivery form   | gel   |
| Colour  | transparent, colourless   |
| Odor  | minty   |
| Physical state  | liquid  |
| Melting point   | Not applicable, Product is a liquid   |
| Solidification temperature  | < -50 °C (< -58 °F)   |
| Initial boiling point   | 220 °C (428 °F)   |
| Flammability  | The product is not flammable.   |
| Explosive limits  |   |
| lower   | 0,16 %(V);  |
| Flash point   | 68 - 72 °C (154.4 - 161.6 °F)   |
| Auto-ignition temperature   | > 300 °C (> 572 °F)   |
| 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 is non-soluble (in water).  |
| Viscosity (kinematic)<br>(20 °C (68 °F); )  | 68.000 mm <sup>2</sup> /s   |
| Viscosity, dynamic<br>(Brookfield; 40 °C (104 °F); speed of rotation: 20<br>min-1; Spindle No: 7) | 150.000 - 200.000 mPa.s no method / method unknown  |
| Solubility (qualitative)<br>(23 °C (73.4 °F); Solvent: Water)                                     | Partially soluble   |
| Partition coefficient: n-octanol/water  | Not applicable  |
| Vapour pressure<br>(20 °C (68 °F))  | Mixture<br>0,14 hPa   |
| Density<br>(20 °C (68 °F))  | 1,0 - 1,1 g/cm <sup>3</sup> no method / method unknown  |
| Relative vapour density:<br>(20 °C)   | Heavier than air  |
| Particle characteristics  | Not applicable<br>Product is a liquid   |

### 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**

Evolves methanol during cure.

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

Cross-reactions with other amine compounds are possible.

**11.1 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  |
|---|--|-------------|---------|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | LD50                                   | 2.295 mg/kg | rat     | EPA OPPTS 870.1100 (Acute Oral Toxicity)                          |
| Trimethoxyvinylsilane<br>2768-02-7                          | LD50                                   | 6.899 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | LD50                                   | 3.700 mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| methanol<br>67-56-1   | Acute<br>toxicity<br>estimate<br>(ATE) | 300 mg/kg   |         | Expert judgement  |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | Acute<br>toxicity<br>estimate<br>(ATE) | 215 mg/kg   |         | Expert judgement  |

**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  |
|---|--|---------------|---------|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | LD50                                   | > 2.000 mg/kg | rat     | EPA OPPTS 870.1200 (Acute Dermal Toxicity)                          |
| Trimethoxyvinylsilane<br>2768-02-7                          | LD50                                   | 3.158 mg/kg   | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | LD50                                   | > 3.170 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| methanol<br>67-56-1   | Acute<br>toxicity<br>estimate<br>(ATE) | 300 mg/kg     |         | Expert judgement  |

**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  |
|---|-------------------------------|------------------|-----------------|------------------|---------|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3 | LC50                          | 1,49 - 2,44 mg/l | dust/mist       | 4 h              | rat     | EPA OPPTS 870.1300 (Acute inhalation toxicity)                          |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3 | Acute toxicity estimate (ATE) | 1,49 mg/l        | dust/mist       |                  |         | Expert judgement  |
| Trimethoxyvinylsilane<br>2768-02-7                        | LC50                          | 16,8 mg/l        | vapour          | 4 h              | rat     | equivalent or similar to 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                                       |
|---|-------------------|------------------|---------|--|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | mildly irritating | 4 h              | rabbit  | EPA OPPTS 870.2500 (Acute Dermal Irritation) |
| Trimethoxyvinylsilane<br>2768-02-7                          | not irritating    |                  | rabbit  | other guideline:                             |
| 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)       |
| methanol<br>67-56-1   | not irritating    | 20 h             | rabbit  | BASF Test                                    |

**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  |
|---|-------------------|------------------|---------|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | highly irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Trimethoxyvinylsilane<br>2768-02-7                          | 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) |
| methanol<br>67-56-1   | 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 CAS-No.                                | Result                        | Test type                    | Species    | Method   |
|---|-------------------------------|------------------------------|------------|--|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | Sub-Category 1A (sensitising) | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation)                          |
| Trimethoxyvinylsilane<br>2768-02-7                          | sensitising                   | Buehler test                 | guinea pig | 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)                          |
| methanol<br>67-56-1   | 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)                          |
| 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)                          |
| 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) |

**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: 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 CAS-No.                                | Result / Value   | Test type            | Route of application | Species | Method  |
|---|--|----------------------|----------------------|---------|---|
| Trimethoxyvinylsilane<br>2768-02-7                          | NOAEL P 250 mg/kg  | one-generation study | oral: gavage         | rat     | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane<br>2768-02-7                          | NOAEL P 1.000 mg/kg  | one-generation study | oral: gavage         | rat     | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane<br>2768-02-7                          | NOAEL F1 1.000 mg/kg   | one-generation study | oral: gavage         | rat     | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | NOAEL P 109 mg/kg<br>NOAEL F1 121 mg/kg                      | two-generation study | oral: feed           | rat     | OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)  |
| 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 generation study | inhalation           | rat     | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity 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 CAS-No.                                | Result / Value   | Route of application | Exposure time / Frequency of treatment  | Species | Method   |
|---|------------------|----------------------|---|---------|--|
| Trimethoxyvinylsilane<br>2768-02-7                          | NOAEL 62,5 mg/kg | oral: gavage         | 42d daily                               | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Trimethoxyvinylsilane<br>2768-02-7                          | NOAEL 0,605 mg/l | inhalation: vapour   | 5 days/week for 14 weeks<br>6 hours/day | rat     | not specified  |
| Trimethoxyvinylsilane<br>2768-02-7                          | NOAEL 50 mg/kg   | oral: gavage         | 28 d daily                              | rat     | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)   |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | NOAEL 36 mg/kg   | oral: feed           | daily                                   | rat     | other guideline:   |
| methanol<br>67-56-1   | NOAEL 6,63 mg/l  | inhalation: vapour   | 4 weeks<br>6 h/d, 5 d/w                 | rat     | equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)                               |
| methanol<br>67-56-1   | NOAEL 0,13 mg/l  | inhalation: vapour   | 12 m<br>20 h/d                          | rat     | equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)                        |

**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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No.                                | Value type | Value            | Exposure time | Species             | Method  |
|---|------------|------------------|---------------|---------------------|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | LC50       | 168 mg/l         | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test)  |
| Trimethoxyvinylsilane<br>2768-02-7                          | LC50       | 191 mg/l         | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute 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)  |
| 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)                                |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | LC50       | > 100 - 220 mg/l | 96 h          | Leuciscus idus      | DIN 38412-15  |

#### Toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No.                                | Value type | Value       | Exposure time | Species       | Method   |
|---|------------|-------------|---------------|---------------|--|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | EC50       | 87,4 mg/l   | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Trimethoxyvinylsilane<br>2768-02-7                          | EC50       | 168,7 mg/l  | 48 h          | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia)                 |
| 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) |
| methanol<br>67-56-1   | EC50       | 18.260 mg/l | 96 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | EC50       | 50 mg/l     | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No.                 | Value type | Value    | Exposure time | Species       | Method                                      |
|--|------------|----------|---------------|---------------|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | NOEC       | > 1 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

|   |      |           |        |               |   |
|---|------|-----------|--------|---------------|---|
| 1760-24-3   |      |           |        |               |   |
| 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) |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | NOEC | > 12 mg/l | 21 day | 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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                             | Value<br>type | Value       | Exposure time | Species  | Method  |
|---|---------------|-------------|---------------|--|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | EC50          | 8,8 mg/l    | 96 h          | Pseudokirchneriella subcapitata  | OECD Guideline 201 (Algal Growth Inhibition Test) |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | NOEC          | 3,1 mg/l    | 96 h          | Pseudokirchneriella subcapitata  | OECD Guideline 201 (Algal Growth Inhibition Test) |
| Trimethoxyvinylsilane<br>2768-02-7                          | EC50          | > 957 mg/l  | 72 h          | Desmodesmus subspicatus  | EU Method C.3 (Algal Inhibition test)             |
| Trimethoxyvinylsilane<br>2768-02-7                          | NOEC          | 957 mg/l    | 72 h          | Desmodesmus subspicatus  | EU Method C.3 (Algal Inhibition test)             |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | EC50          | 0,705 mg/l  | 72 h          | Pseudokirchneriella subcapitata  | OECD Guideline 201 (Algal Growth Inhibition Test) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | EC10          | 0,188 mg/l  | 72 h          | Pseudokirchneriella subcapitata  | OECD Guideline 201 (Algal Growth Inhibition Test) |
| methanol<br>67-56-1   | EC50          | 22.000 mg/l | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Algal Growth Inhibition Test) |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | EC50          | > 100 mg/l  | 72 h          | Desmodesmus subspicatus<br>(reported as Scenedesmus subspicatus)         | EU Method C.3 (Algal Inhibition test)             |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | NOEC          | > 100 mg/l  | 72 h          | Desmodesmus subspicatus<br>(reported as Scenedesmus subspicatus)         | EU Method C.3 (Algal Inhibition test)             |

**Toxicity (microorganisms):**

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                             | Value<br>type | Value        | Exposure time | Species   | Method   |
|---|---------------|--------------|---------------|---|--|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | EC 50         | 435 mg/l     | 3 h           |   | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Trimethoxyvinylsilane<br>2768-02-7                          | EC50          | > 100 mg/l   | 3 h           | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | EC50          | > 100 mg/l   | 3 h           | activated sludge, domestic                          | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| methanol<br>67-56-1   | IC50          | > 1.000 mg/l | 3 h           | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | EC 50         | 330 mg/l     | 17 h          |   | not specified  |

## 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                 | Result                          | Test type | Degradability | Exposure<br>time | Method  |
|---|---------------------------------|-----------|---------------|------------------|---|
| N-(3-(Trimethoxysilyl)propyl)ethyl<br>enediamine<br>1760-24-3   |                                 | aerobic   | 50 %          |                  | OECD Guideline 301 A (new<br>version) (Ready Biodegradability:<br>DOC Die Away Test)        |
| Trimethoxyvinylsilane<br>2768-02-7                              | not readily biodegradable.      | aerobic   | 51 %          | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry 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)                     |
| 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) |
| 1,8-Diazabicyclo[5.4.0]undec-<br>7-ene<br>6674-22-2             | not inherently<br>biodegradable | aerobic   | < 20 %        | 28 day           | OECD Guideline 302 B (Inherent<br>biodegradability: Zahn-<br>Wellens/EMPA Test)             |
| 1,8-Diazabicyclo[5.4.0]undec-<br>7-ene<br>6674-22-2             | not readily biodegradable.      | aerobic   | < 20 %        | 28 day           | OECD Guideline 301 A (new<br>version) (Ready Biodegradability:<br>DOC Die Away Test)        |

## 12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                     | Bioconcentratio<br>n factor (BCF) | Exposure time | Temperature | Species                     | Method   |
|---|-----------------------------------|---------------|-------------|-----------------------------|--|
| methanol<br>67-56-1                                 | < 10                              | 72 h          |             | Leuciscus idus<br>melanotus | not specified  |
| 1,8-Diazabicyclo[5.4.0]undec-<br>7-ene<br>6674-22-2 | < 0,4                             | 42 day        |             | Cyprinus carpio             | OECD Guideline 305 C<br>(Bioaccumulation: Test for the<br>Degree of Bioconcentration in<br>Fish) |

#### 12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                             | LogPow | Temperature | Method   |
|---|--------|-------------|--|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | -1,67  |             | not specified  |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>52829-07-9 | 0,35   | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| methanol<br>67-56-1   | -0,77  |             | other guideline:   |

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                             | PBT / vPvB  |
|---|---|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Trimethoxyvinylsilane<br>2768-02-7                          | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very 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 Bioaccumulative (vPvB) criteria. |
| methanol<br>67-56-1   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,8-Diazabicyclo[5.4.0]undec-7-ene<br>6674-22-2             | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very 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:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

**SECTION 14: Transport information**

**14.1. UN number or ID number**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.2. UN proper shipping name**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.3. Transport hazard class(es)**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.4. Packing group**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.5. Environmental hazards**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**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 |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

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

WGK: WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )  
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 10

## 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.  
H290 May be corrosive to metals.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
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 if inhaled.  
H400 Very toxic to aquatic life.  
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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