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Valid from: 24.02.2023
PDF print date: 27.02.2023
4W Adhesive 290 ml
Art.: 9017046

Safety data sheet<br>according to Regulation (EC) No 1907/2006, Annex II

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

### 1.1 Product identifier

4W Adhesive 290 ml
Art.: 9017046
1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:
Adhesive sealant
Uses advised against:
No information available at present.
1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH \& Co. KG
Salzstr. 51
74653 Ingelfingen
Tel.: +49 7940141141
Fax: +49 79401419141
Email: info@bti.de
Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.
1.4 Emergency telephone number

Emergency information services / official advisory body:
Telephone number of the company in case of emergencies:
+49 (0) $700 / 24112112$ (BRC)
+1 8725888271 (BRC)

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

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EUH208-Contains Trimethoxyvinylsilane. May produce an allergic reaction.
EUH210-Safety data sheet available on request.
EUH212-Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

### 2.3 Other hazards

The mixture does not contain any vPvB substance ( $\mathrm{vPvB}=$ very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 ( $<0,1 \%$ ).
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 \%).
The mixture does not contain any substance with endocrine disrupting properties ( $<0,1 \%$ ).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.
3.2 Mixtures

| Titanium dioxide (in powder form containing $\mathbf{1} \mathbf{\%} \mathbf{~ o r}$ <br> more of particles with aerodynamic diameter $<=\mathbf{1 0} \boldsymbol{\mu m}$ ) |  |
| :--- | :--- |
| Registration number (REACH) | $01-2119489379-17-$ XXXX |
| Index | $022-006-002$ |
| EINECS, ELINCS, NLP, REACH-IT List-No. | $236-675-5$ |
| CAS | $13463-67-7$ |
| content \% | $1-<2,5$ |
| Classification according to Regulation (EC) $\mathbf{1 2 7 2} / \mathbf{2 0 0 8}$ <br> (CLP), M-factors | Carc. 2, H351 (as inhalation) |


| Trimethoxyvinylsilane |  |
| :--- | :--- |
| Registration number (REACH) | $01-2119513215-52-$ XXXX |
| Index | $014-049-00-0$ |
| EINECS, ELINCS, NLP, REACH-IT List-No. | $220-449-8$ |
| CAS | $2768-02-7$ |
| content \% | $0,1-<1$ |
| Classification according to Regulation (EC) 1272/2008 <br> (CLP), M-factors | Flam. Liq. 3, H226 <br> Acute Tox. 4, H332 <br> Skin Sens. 1B, H317 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.
For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.
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### 4.1 Description of first aid measures

First-aiders should ensure they are protected!
Never pour anything into the mouth of an unconscious person!

## Inhalation

Supply person with fresh air and consult doctor according to symptoms.

## Skin contact

Wipe off residual product carefully with a soft, dry cloth.
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

## Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

## Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting. Consult doctor immediately.
4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.
4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

## Suitable extinguishing media

Adapt to the nature and extent of fire.
Unsuitable extinguishing media
None
5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:
Oxides of carbon
Nitro gases
Hydrogen chloride
Toxic gases

### 5.3 Advice for firefighters

For personal protective equipment see Section 8.
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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

### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.
Ensure sufficient ventilation, remove sources of ignition.
Avoid dust formation with solid or powder products.
Leave the danger zone if possible, use existing emergency plans if necessary.
Avoid contact with eyes or skin.

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### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.
6.2 Environmental precautions

If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.
6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.
Flush residue using copious water.
6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Prevent long-term skin contact.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Observe directions on label and instructions for use.

### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Store at room temperature.
Suitable container:
Plastic
7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| (98) | Chemical Name | Titanium dioxide (in powder form containing $1 \%$ or more of particles with aerodynamic diameter $<=10 \mu \mathrm{~m}$ ) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WEL-TWA: $10 \mathrm{mg} / \mathrm{m} 3$ (total inhalable dust), $4 \mathrm{mg} / \mathrm{m} 3$ (respirable dust) |  |  | WEL-STEL: | --- |  | --- |
| Monitoring procedures: --- |  |  |  |  |  |  |
| BMGV: --- |  |  |  |  | Other information: | --- |
| (GB) | Chemical Name | Calcium ca | nate |  |  |  |

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| Titanium dioxide (in powder form containing $1 \%$ or more of particles with aerodynamic diameter <= 10 $\mu \mathrm{m}$ ) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area of application | Exposure route / <br> Environmental <br> compartment | Effect on health | Descript or | Value | Unit | Note |
|  | Environment freshwater |  | PNEC | 0,184 | mg/l |  |
|  | Environment - marine |  | PNEC | $\begin{aligned} & 0,018 \\ & 4 \end{aligned}$ | mg/l |  |
|  | Environment - water, sporadic (intermittent) release |  | PNEC | 0,193 | mg/l |  |
|  | Environment sewage treatment plant |  | PNEC | 100 | mg/l |  |
|  | Environment sediment, freshwater |  | PNEC | 1000 | $\begin{aligned} & \begin{array}{l} \mathrm{mg} / \mathrm{kg} \\ \mathrm{dw} \end{array} \\ & \hline \end{aligned}$ |  |
|  | Environment sediment, marine |  | PNEC | 100 | $\begin{aligned} & \begin{array}{l} \mathrm{mg} / \mathrm{kg} \\ \mathrm{dw} \end{array} \\ & \hline \end{aligned}$ |  |
|  | Environment - soil |  | PNEC | 100 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  |
|  | Environment - oral (animal feed) |  | PNEC | 1667 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \text { feed } \end{aligned}$ |  |

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| Consumer | Human - oral | Long term, <br> systemic effects | DNEL | 700 | $\mathrm{mg} / \mathrm{kg}$ <br> $\mathrm{bw} / \mathrm{d}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Workers / employees | Human - inhalation | Long term, local <br> effects | DNEL | 10 | $\mathrm{mg} / \mathrm{m} 3$ |  |


| Trimethoxyvinylsilane |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area of application | Exposure route / Environmental compartment | Effect on health | Descript or | Value | Unit | Note |
|  | Environment freshwater |  | PNEC | 0,4 | mg/l | Für <br> entsprec <br> hendes <br> Silantrio <br> 1 <br> (Hydrol <br> ysprodu <br> kt) ermittelt |
|  | Environment - marine |  | PNEC | 0,04 | mg/l | Für entsprec hendes Silantrio l (Hydrol ysprodu kt) ermittelt |
|  | Environment - water, sporadic (intermittent) release |  | PNEC | 2,4 | mg/l | Für entsprec hendes Silantrio 1 <br> (Hydrol ysprodu kt) ermittelt |
|  | Environment sewage treatment plant |  | PNEC | 6,6 | mg/l | Für <br> entsprec <br> hendes <br> Silantrio <br> 1 <br> (Hydrol <br> ysprodu <br> kt) <br> ermittelt |

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|  | Environment sediment, freshwater |  | PNEC | 1,5 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ | Für entsprec hendes Silantrio 1 <br> (Hydrol ysprodu kt) ermittelt |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Environment sediment, marine |  | PNEC | 0,15 | $\mathrm{mg} / \mathrm{kg}$ <br> dw | Für entsprec hendes Silantrio 1 <br> (Hydrol <br> ysprodu <br> kt) <br> ermittelt |
|  | Environment - soil |  | PNEC | 0,06 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ | Für entsprec hendes Silantrio 1 <br> (Hydrol ysprodu kt) ermittelt |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 0,1 | $\mathrm{mg} / \mathrm{kg}$ bw/day |  |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,63 | $\mathrm{mg} / \mathrm{kg}$ bw/day |  |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 6,8 | mg/m3 |  |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,63 | mg/kg <br> bw/day |  |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 93,4 | mg/m3 |  |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,91 | $\mathrm{mg} / \mathrm{kg}$ <br> bw/day |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 27,6 | mg/m3 |  |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 4,9 | mg/m3 |  |

## Calcium carbonate

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| Area of application | Exposure route / <br> Environmental <br> compartment | Effect on health | Descript <br> or | Value | Unit | Note |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Environment - <br> sewage treatment <br> plant | Human - oral | Long term, <br> systemic effects | DNEL | 6,1 | $\mathrm{mg} / \mathrm{kg}$ <br> $\mathrm{bw} / \mathrm{day}$ |
| Consumer | Human - inhalation | Long term, <br> systemic effects | DNEL | 10 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Consumer | Human - inhalation | Long term, local <br> effects | DNEL | 1,06 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Consumer | Human - oral | Short term, <br> systemic effects | DNEL | 6,1 | $\mathrm{mg} / \mathrm{kg}$ <br> $\mathrm{bw} / \mathrm{day}$ |  |
| Consumer | Human - inhalation | Long term, local <br> effects | DNEL | 4,26 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Workers / employees | Human - inhalation | Long term, <br> systemic effects | DNEL | 10 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Workers / employees | HNE |  |  |  |  |  |


| Methanol | Area of application | Exposure route / <br> Environmental <br> compartment | Effect on health | Descript <br> or | Value | Unit |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Environment - <br> freshwater |  | PNEC | 154 | $\mathrm{mg} / \mathrm{l}$ |  |
|  | Environment - marine |  | PNEC | 15,4 | $\mathrm{mg} / \mathrm{l}$ |  |
|  | Environment - <br> sediment, freshwater |  | PNEC | 570,4 | $\mathrm{mg} / \mathrm{kg}$ |  |
|  | Environment - <br> sediment, marine |  | PNEC | 57,04 | $\mathrm{mg} / \mathrm{kg}$ |  |
|  | Environment - soil |  | PNEC | 23,5 | $\mathrm{mg} / \mathrm{kg}$ |  |
|  | Environment - water, <br> sporadic <br> (intermittent) release |  | 1540 | $\mathrm{mg} / \mathrm{l}$ |  |  |
| Consumer | Environment - <br> sewage treatment <br> plant |  | PNEC | 100 | $\mathrm{mg} / \mathrm{l}$ |  |
| Consumer | Human - inhalation | Long term, local <br> effects | DNEL | 26 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Consumer | Human - inhalation | Short term, local <br> effects | DNEL | 26 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Consumer | Human - dermal | Short term, <br> systemic effects | DNEL | 4 | $\mathrm{mg} / \mathrm{kg}$ |  |
| bw/day |  |  |  |  |  |  |$|$

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| Consumer | Human - inhalation | Long term, <br> systemic effects | DNEL | 26 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Consumer | Human - oral | Long term, <br> systemic effects | DNEL | 4 | $\mathrm{mg} / \mathrm{kg}$ <br> bw/day |  |
| Workers / employees | Human - dermal | Short term, <br> systemic effects | DNEL | 20 | $\mathrm{mg} / \mathrm{kg}$ <br> bw/day |  |
| Workers / employees | Human - inhalation | Short term, <br> systemic effects | DNEL | 130 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Workers / employees | Human - inhalation | Short term, local <br> effects | DNEL | 130 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Workers / employees | Human - dermal | Long term, <br> systemic effects | DNEL | 20 | $\mathrm{mg} / \mathrm{kg}$ <br> $\mathrm{bw} / \mathrm{day}$ |  |
| Workers / employees | Human - inhalation | Long term, <br> systemic effects | DNEL | 130 | $\mathrm{mg} / \mathrm{m} 3$ |  |
| Workers / employees | Human - inhalation | Long term, local <br> effects | DNEL | 130 | $\mathrm{mg} / \mathrm{m} 3$ |  |

(बB) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding $0,002 \mathrm{mg} \mathrm{Cd} / \mathrm{g}$ creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).
$(10)=$ Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14)
$=$ The substance can cause sensitisation of the skin (Directive 2004/37/CE).

### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
Applies only if maximum permissible exposure values are listed here.
Suitable assessment methods for reviewing the effectiveness of protection measures adopted include
metrological and non-metrological investigative techniques.
These are specified by e.g. EN 14042.
EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
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Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
Eye/face protection:
Recommended
Tight fitting protective goggles with side protection (EN 166).
Skin protection - Hand protection:
Normally not necessary.
Protective hand cream recommended.
Skin protection - Other:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).
Respiratory protection:
Normally not necessary.
Thermal hazards:
Not applicable
Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:
Colour:
Odour:
Melting point/freezing point:
Boiling point or initial boiling point and boiling range: Flammability:
Lower explosion limit:
Upper explosion limit:
Flash point:
Auto-ignition temperature:
Decomposition temperature:

## Paste, Solid

According to specification
Slightly
There is no information available on this parameter.
There is no information available on this parameter. Flammable
Does not apply to solids.
Does not apply to solids.
$>200^{\circ} \mathrm{C}$
Does not apply to solids.
There is no information available on this parameter.
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pH:
Kinematic viscosity:
Solubility:
Partition coefficient n-octanol/water (log value):
Vapour pressure:
Density and/or relative density:
Relative vapour density:

### 9.2 Other information

Explosives:
Oxidizing solids:
Solubility(ies):
Solvents content:

Mixture is non-soluble (in water).
Does not apply to solids.
Insoluble
Does not apply to mixtures.
There is no information available on this parameter.
$1,455 \mathrm{~g} / \mathrm{cm} 3$
Does not apply to solids.
Product is not explosive.
No
Organic solvents
$<2$ \% (Organic solvents )

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.
10.2 Chemical stability

Stable with proper storage and handling.
10.3 Possibility of hazardous reactions

No dangerous reactions are known.
10.4 Conditions to avoid

None known
10.5 Incompatible materials

None known
10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

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| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Toxicity / effect |  |  |  |  |  | n.d.a. |
| Acute toxicity, by oral <br> route: |  |  |  |  |  | n.d.a. |
| Acute toxicity, by <br> dermal route: |  |  |  |  |  | n.d.a. |
| Acute toxicity, by <br> inhalation: |  |  |  |  |  | n.d.a. |
| Skin corrosion/irritation: |  |  |  |  |  | n.d.a. |
| Serious eye <br> damage/irritation: |  |  |  |  |  | n.d.a. |
| Respiratory or skin <br> sensitisation: |  |  |  |  | n.d.a. |  |
| Germ cell mutagenicity: |  |  |  |  |  | n.d.a. |
| Carcinogenicity: |  |  |  |  |  |  |

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| Reproductive toxicity: |  |  |  |  |  | n.d.a. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Specific target organ <br> toxicity - single <br> exposure (STOT-SE): |  |  |  |  |  | n.d.a. |
| Specific target organ <br> toxicity - repeated <br> exposure (STOT-RE): |  |  |  |  |  | n.d.a. |
| Aspiration hazard: |  |  |  |  |  |  |
| Symptoms: |  |  |  |  |  | n.d.a. |


| Titanium dioxide (in powder form containing $1 \%$ or more of particles with aerodynamic diameter <= 10 $\mu \mathrm{m})$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Toxicity / effect | Endpoi nt | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 425 (Acute Oral Toxicity -Up-and-Down Procedure) |  |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit |  |  |
| Acute toxicity, by inhalation: | LC50 | >6,8 | mg/l/4h | Rat |  |  |
| Skin corrosion/irritation: |  |  |  | Rabbit | OECD 404 (Acute <br> Dermal <br> Irritation/Corrosio <br> n) | Not irritant |
| Serious eye damage/irritation: |  |  |  | Rabbit | OECD 405 (Acute Eye <br> Irritation/Corrosio <br> n) | Not irritant, Mechanical irritation possible. |
| Respiratory or skin sensitisation: |  |  |  | Mouse | OECD 429 (Skin <br> Sensitisation - <br> Local Lymph <br> Node Assay) | Not sensitizising |
| Respiratory or skin sensitisation: |  |  |  | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: |  |  |  | Mouse | OECD 474 <br> (Mammalian <br> Erythrocyte <br> Micronucleus <br> Test) | Negative |
| Germ cell mutagenicity: |  |  |  | Mammalia $\mathrm{n}$ | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: |  |  |  | Salmonella typhimuri um | (Ames-Test) | Negative |

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| Germ cell mutagenicity: |  |  |  |  | OECD 476 (In <br> Vitro Mammalian Cell Gene Mutation Test) | Negative |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Germ cell mutagenicity: |  |  |  |  | OECD 471 <br> (Bacterial Reverse <br> Mutation Test) | Negative |
| Reproductive toxicity (Developmental toxicity): |  |  |  | Rat | OECD 414 <br> (Prenatal Developmental Toxicity Study) | No indications of such an effect. |
| Specific target organ toxicity - single <br> exposure (STOT-SE): |  |  |  |  |  | Not irritant (respiratory tract). |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 3500 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} / \\ & \mathrm{d} \end{aligned}$ | Rat |  | (90d) |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10 | mg/m3 | Rat |  | (90d) |
| Symptoms: |  |  |  |  |  | mucous membrane irritation, coughing, respiratory distress, drying of the skin. |


| Trimethoxyvinylsilane |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Toxicity / effect | Endpoi <br> nt | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral <br> route: | LD50 | 7120 | $\mathrm{mg} / \mathrm{kg}$ | Rat | OECD 401 (Acute <br> Oral Toxicity) |  |
| Acute toxicity, by <br> dermal route: | LD50 | 3200 | $\mathrm{mg} / \mathrm{kg}$ | Rabbit | OECD 402 (Acute <br> Dermal Toxicity) |  |
| Acute toxicity, by <br> inhalation: | LC50 | 16,8 | $\mathrm{mg} / \mathrm{l} / 4 \mathrm{~h}$ | Rat | OECD 403 (Acute <br> Inhalation <br> Toxicity) | Vapours |
| Acute toxicity, by <br> inhalation: | LD50 | 2773 | $\mathrm{ppm} / 4 \mathrm{~h}$ | Rat | OECD 403 (Acute <br> Inhalation <br> Toxicity) | Aerosol |
| Skin corrosion/irritation: |  |  |  | Rabbit | OECD 404 (Acute <br> Dermal | Not irritant |

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| Serious eye damage/irritation: |  |  |  | Rabbit | OECD 405 (Acute Eye <br> Irritation/Corrosio <br> n) | Not irritant |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Respiratory or skin sensitisation: |  |  |  | Guinea pig | OECD 406 (Skin <br> Sensitisation) | Skin Sens. 1B |
| Germ cell mutagenicity: |  |  |  |  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative Chinese hamster |
| Germ cell mutagenicity: |  |  |  | Mouse | OECD 474 <br> (Mammalian <br> Erythrocyte <br> Micronucleus Test) | Negative |
| Germ cell mutagenicity: |  |  |  | Rat | OECD 489 (In Vivo Mammalian Alkaline Comet Assay) | Negative |
| Germ cell mutagenicity: |  |  |  | Salmonella typhimuri um | OECD 471 <br> (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 1000 | mg/kg | Rat | OECD 422 <br> (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | NOAEL | >= 75 | mg/kg | Rabbit | OECD 414 <br> (Prenatal <br> Developmental <br> Toxicity Study) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 62,5 | mg/kg | Rat | OECD 408 <br> (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Target organ(s): bladder |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL | 0,58 | mg/l | Rat | OECD 413 <br> (Subchronic <br> Inhalation <br> Toxicity - 90-Day <br> Study) | Vapours |

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| Symptoms: |  |  |  |  | drowsiness, <br> dizziness, <br> nausea, <br> abdominal <br> pain, <br> breathing <br> difficulties, <br> visual <br> disturbances |
| :--- | :--- | :--- | :--- | :--- | :--- |


| Calcium carbonate |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Toxicity / effect | Endpoi nt | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 420 (Acute <br> Oral toxicity - <br> Fixe Dose <br> Procedure) |  |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) |  |
| Acute toxicity, by inhalation: | LC50 | >3 | mg/l/4h | Rat | OECD 403 (Acute <br> Inhalation <br> Toxicity) |  |
| Skin corrosion/irritation: |  |  |  | Rabbit | OECD 404 (Acute <br> Dermal <br> Irritation/Corrosio <br> n) | Not irritant |
| Serious eye damage/irritation: |  |  |  | Rabbit | OECD 405 (Acute Eye <br> Irritation/Corrosio <br> n) | Not irritant |
| Respiratory or skin sensitisation: |  |  |  | Mouse | OECD 429 (Skin <br> Sensitisation - <br> Local Lymph <br> Node Assay) | No (skin contact) |
| Germ cell mutagenicity: |  |  |  |  | OECD 471 <br> (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: |  |  |  |  | OECD 473 (In <br> Vitro Mammalian <br> Chromosome <br> Aberration Test) | Negative |
| Germ cell mutagenicity: |  |  |  |  | OECD 476 (In <br> Vitro Mammalian <br> Cell Gene <br> Mutation Test) | Negative |
| Carcinogenicity: |  |  |  |  |  | No indications of such an effect. |

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| Reproductive toxicity: | NOEL | 1000 | mg/kg <br> bw/d | Rat | OECD 422 <br> (Combined <br> Repeated Dose <br> Tox. Study with <br> the <br> Reproduction/Dev <br> elopm. Tox. <br> Screening Test) |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Specific target organ <br> toxicity - single <br> exposure (STOT-SE): |  |  |  |  |  | No <br> indications <br> of such an <br> effect. |
| Specific target organ <br> toxicity - repeated <br> exposure (STOT-RE): |  |  |  |  | No <br> indications <br> of such an <br> effect. |  |
| Aspiration hazard: |  |  |  |  |  |  |
| Specific target organ <br> toxicity - repeated <br> exposure (STOT-RE), <br> oral: | NOAEL | 1000 | mg/kg <br> bw/d | Rat | OECD 422 <br> (Combined <br> Repeated Dose <br> Tox. Study with <br> the <br> Reproduction/Dev <br> elopm. Tox. <br> Screening Test) |  |
| Specific target organ <br> toxicity - repeated <br> exposure (STOT-RE), <br> inhalat:: | NOAEC | 0,212 | mg/l | Rat | OECD 413 <br> (Subchronic | Inhalation <br> Toxicity - 90-Day <br> Study) |


| Methanol |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Toxicity / effect | Endpoi nt | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | ATE | 300 | mg/kg | Human being |  | Experiences on persons. |
| Acute toxicity, by dermal route: | LD50 | 17100 | mg/kg | Rabbit |  | Does not conform with EU classification |
| Acute toxicity, by inhalation: | LC50 | 85 | mg/l/4h | Rat |  | Not relevant for classification ., Vapours |
| Serious eye damage/irritation: |  |  |  | Rabbit | OECD 405 (Acute Eye <br> Irritation/Corrosio <br> n) | Not irritant |
| Respiratory or skin sensitisation: |  |  |  | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |

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| Germ cell mutagenicity: |  |  |  | Salmonella typhimuri um | OECD 471 <br> (Bacterial Reverse Mutation Test) | Negative |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Germ cell mutagenicity: |  |  |  | Mouse | OECD 474 <br> (Mammalian <br> Erythrocyte <br> Micronucleus <br> Test) | Negative |
| Carcinogenicity: |  |  |  | Mouse | OECD 453 <br> (Combined <br> Chronic <br> Toxicity/Carcinoge nicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 1,3 | mg/l | Mouse | OECD 416 (Two- <br> generation <br> Reproduction <br> Toxicity Study) |  |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | 0,13 | mg/l | Rat | OECD 453 <br> (Combined <br> Chronic <br> Toxicity/Carcinoge nicity Studies) |  |
| Symptoms: |  |  |  |  |  | abdominal pain, vomiting, headaches, gastrointestin al <br> disturbances, drowsiness, visual disturbances, watering eyes, nausea, mental confusion, intoxication, dizziness |

11.2. Information on other hazards

| 4W Adhesive 290 ml <br> Art.: 9017046 | Endpoi <br> nt | Value | Unit | Organism | Test method | Notes |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Toxicity / effect |  |  |  |  |  | Does not <br> apply to <br> mixtures. |
| Endocrine disrupting <br> properties: |  |  |  |  |  |  |

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| Other information: |  |  |  |  | No other <br> relevant <br> information <br> available on <br> adverse <br> effects on <br> health. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| 4W Adhesive 290 ml <br> Art.: 9017046 |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to <br> fish: |  |  |  |  |  |  | n.d.a. |
| 12.1. Toxicity to <br> daphnia: |  |  |  |  |  |  | n.d.a. |
| 12.1. Toxicity to <br> algae: |  |  |  |  |  | n.d.a. |  |
| 12.2. Persistence <br> and degradability: |  |  |  |  |  |  | n.d.a. |
| 12.3. <br> Bioaccumulative <br> potential: |  |  |  |  |  |  | n.d.a. |
| 12.4. Mobility in <br> soil: |  |  |  |  |  |  | n.d.a. |
| 12.5. Results of <br> PBT and vPvB <br> assessment |  |  |  |  |  |  | n.d.a. <br> 12.6. Endocrine <br> disrupting <br> properties: |
| 12.7. Other <br> adverse effects: <br> apply to <br> mixtures. |  |  |  |  |  |  |  |

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Other information: |  | AOX |  | 0,479 | $\%$ |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

| Titanium dioxide (in powder form containing 1 \% or more of particles with aerodynamic diameter <= 10 $\mu \mathrm{m}$ ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 <br> (Fish, Acute Toxicity Test) |  |
| 12.1. Toxicity to daphnia: | LC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 <br> (Daphnia sp. <br> Acute <br> Immobilisatio <br> n Test) |  |
| 12.1. Toxicity to algae: | EC50 | 72h | 16 | $\mathrm{mg} / \mathrm{l}$ | Pseudokirchne riella subcapitata | $\begin{aligned} & \text { U.S. EPA- } \\ & \text { 600/9-78-018 } \end{aligned}$ |  |
| 12.2. Persistence and degradability: |  |  |  |  |  |  | Not relevant for inorganic substances. |
| 12.3. <br> Bioaccumulative potential: | BCF | 42d | 9,6 |  |  |  | Not to be expected |
| 12.3. <br> Bioaccumulative potential: | BCF | 14d | $\begin{aligned} & 19- \\ & 352 \end{aligned}$ |  |  |  | Oncorhynchu s mykiss |
| 12.4. Mobility in soil: |  |  |  |  |  |  | Negative |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | No PBT substance, No vPvB substance |
| Toxicity to bacteria: |  |  | >5000 | mg/l | Escherichia coli |  |  |
| Toxicity to bacteria: | LC0 | 24h | $\begin{aligned} & >1000 \\ & 0 \end{aligned}$ | mg/l | Pseudomonas fluorescens |  |  |
| Toxicity to annelids: | $\begin{aligned} & \text { NOEC/NO } \\ & \text { EL } \end{aligned}$ |  | >1000 | $\mathrm{mg} / \mathrm{kg}$ | Eisenia foetida |  |  |
| Water solubility: |  |  |  |  |  |  | $\begin{aligned} & \text { Insoluble20 } \\ & \text { C } \\ & \hline \end{aligned}$ |


| Trimethoxyvinylsilane |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to <br> fish: | LC50 | 96 h | 191 | $\mathrm{mg} / \mathrm{l}$ | Oncorhynchus <br> mykiss | OECD 203 <br> (Fish, Acute <br> Toxicity Test) |  |

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| 12.1. Toxicity to daphnia: | EC50 | 48h | 168,7 | mg/l | Daphnia magna | Regulation <br> (EC) <br> 440/2008 C. 2 <br> (DAPHNIA <br> SP. ACUTE <br> IMMOBILIS <br> ATION <br> TEST) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12.1. Toxicity to daphnia: | $\begin{aligned} & \text { NOEC/NO } \\ & \text { EL } \end{aligned}$ | 21d | 28 | mg/l | Daphnia magna | OECD 211 <br> (Daphnia <br> magna <br> Reproduction <br> Test) |  |
| 12.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | Selenastrum capricornutum | OECD 201 <br> (Alga, <br> Growth <br> Inhibition <br> Test) |  |
| 12.1. Toxicity to algae: | $\begin{aligned} & \text { NOEC/NO } \\ & \text { EL } \end{aligned}$ | 72h | 25 | mg/l | Selenastrum capricornutum |  |  |
| 12.2. Persistence and degradability: | BOD | 28d | 51 | \% |  | OECD 301 F <br> (Ready <br> Biodegradabil ity - <br> Manometric <br> Respirometry <br> Test) | Not readily biodegradabl e |
| 12.3. <br> Bioaccumulative potential: | Log Kow |  | 1,1 |  |  |  | Not to be expected 20 ${ }^{\circ} \mathrm{C}$ |
| QSAR |  |  |  |  |  |  |  |
| 12.4. Mobility in soil: |  |  |  |  |  |  | Slight |
| Toxicity to bacteria: | EC50 | 3h | >2500 | mg/l | activated sludge | OECD 209 <br> (Activated <br> Sludge, <br> Respiration <br> Inhibition <br> Test (Carbon <br> and <br> Ammonium <br> Oxidation)) |  |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | 5h | 1000 | mg/l | Pseudomonas putida |  |  |

## Calcium carbonate

Toxicity / effect

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\(\left.$$
\begin{array}{|l|l|l|l|l|l|l|l|}\hline \begin{array}{l}\text { 12.1. Toxicity to } \\
\text { fish: }\end{array} & \text { LC50 } & \text { 96h } & & & \begin{array}{l}\text { Oncorhynchus } \\
\text { mykiss }\end{array} & \begin{array}{l}\text { OECD 203 } \\
\text { (Fish, Acute } \\
\text { Toxicity Test) }\end{array} & \begin{array}{l}\text { No } \\
\text { observation } \\
\text { with } \\
\text { saturated } \\
\text { solution of } \\
\text { test material. }\end{array} \\
\hline \begin{array}{l}\text { 12.1. Toxicity to } \\
\text { daphnia: }\end{array} & \text { EC50 } & \text { 48h } & & & \begin{array}{l}\text { Daphnia } \\
\text { magna }\end{array} & \begin{array}{l}\text { OECD 202 } \\
\text { (Daphnia sp. } \\
\text { Acute } \\
\text { Immobilisatio } \\
\text { n Test) }\end{array} & \begin{array}{l}\text { No } \\
\text { observation } \\
\text { with } \\
\text { saturated } \\
\text { solution of } \\
\text { test material. }\end{array} \\
\hline \begin{array}{l}\text { 12.1. Toxicity to } \\
\text { algae: }\end{array} & \text { EC50 } & 72 \mathrm{~h} & >14 & \text { mg/l } & \begin{array}{l}\text { Desmodesmus } \\
\text { subspicatus }\end{array} & \begin{array}{l}\text { OECD 201 } \\
\text { (Alga, }\end{array} & \begin{array}{l}\text { Growth }\end{array} \\
\hline \begin{array}{l}\text { I2.1. Toxicity to } \\
\text { algae: }\end{array} & \begin{array}{l}\text { NOEC/NO } \\
\text { EL }\end{array} & 72 \mathrm{~h} & 14 & \mathrm{mg} / \mathrm{l} & \begin{array}{l}\text { Desmodesmus } \\
\text { subspicatus }\end{array} & \begin{array}{l}\text { Test) }\end{array} & \begin{array}{l}\text { OECD 201 } \\
\text { (Alga, } \\
\text { Growth } \\
\text { Inhibition }\end{array}
$$ <br>

Test)\end{array}\right]\)|  |
| :--- |
| 12.2. Persistence <br> and degradability: |

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| Toxicity to bacteria: | NOEC/NO <br> EL | 3h | 1000 | mg/l | activated <br> sludge | OECD 209 <br> (Activated <br> Sludge, <br> Respiration <br> Inhibition <br> Test (Carbon and <br> Ammonium Oxidation)) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Other organisms: | EC50 | 21d | >1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  | OECD 208 <br> (Terrestrial <br> Plants, <br> Growth Test) | Glycine max |
| Other organisms: | EC50 | 21d | >1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  | OECD 208 <br> (Terrestrial <br> Plants, <br> Growth Test) | Lycopersicon esculentum |
| Other organisms: | EC50 | 21d | >1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  | OECD 208 <br> (Terrestrial <br> Plants, Growth Test) | Avena sativa |
| Other organisms: | $\begin{aligned} & \text { NOEC/NO } \\ & \text { EL } \end{aligned}$ | 21d | 1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  | OECD 208 <br> (Terrestrial <br> Plants, <br> Growth Test) | Glycine max |
| Other organisms: | $\begin{aligned} & \text { NOEC/NO } \\ & \text { EL } \end{aligned}$ | 21d | 1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  | OECD 208 <br> (Terrestrial <br> Plants, <br> Growth Test) | Lycopersicon esculentum |
| Other organisms: | $\begin{aligned} & \text { NOEC/NO } \\ & \text { EL } \end{aligned}$ | 21d | 1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  | OECD 208 <br> (Terrestrial <br> Plants, Growth Test) | Avena sativa |
| Other organisms: | EC50 | 14d | >1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ | Eisenia foetida | OECD 207 <br> (Earthworm, Acute <br> Toxicity Tests) |  |
| Other organisms: | $\begin{aligned} & \text { NOEC/NO } \\ & \text { EL } \end{aligned}$ | 14d | 1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ | Eisenia foetida | OECD 207 <br> (Earthworm, Acute <br> Toxicity <br> Tests) |  |
| Other organisms: | EC50 | 28d | >1000 | $\begin{aligned} & \mathrm{mg} / \mathrm{kg} \\ & \mathrm{dw} \end{aligned}$ |  | OECD 216 <br> (Soil <br> Microorganis <br> ms - Nitrogen <br> Transformatio <br> n Test) |  |

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| Other organisms: | NOEC/NO <br> EL | 28d | 1000 | $\mathrm{mg} / \mathrm{kg}$ <br> dw |  | OECD 216 <br> (Soil <br> Microorganis <br> ms - Nitrogen |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Water solubility: |  |  | Transformatio <br> n Test) |  |  |  |  |


| Methanol |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.5. Results of <br> PBT and vPvB <br> assessment |  |  |  |  |  | No PBT <br> substance, <br> No vPvB <br> substance |  |
| 12.1. Toxicity to <br> fish: | LC50 | 96 h | 15400 | $\mathrm{mg} / \mathrm{l}$ | Lepomis <br> macrochirus |  | EPA-660/3- <br> 75-009 |
| 12.1. Toxicity to <br> daphnia: | EC50 | 96 h | 18260 | $\mathrm{mg} / \mathrm{l}$ | Daphnia <br> magna | OECD 202 <br> (Daphnia sp. <br> Acute |  |
| 12.1. Toxicity to <br> algae: | EC50 | 96 h | 22000 | $\mathrm{mg} / \mathrm{l}$ | Pseudokirchne <br> rella <br> subcapitata <br> n Test) | OECD 201 <br> (Alga, <br> Growth <br> Inhibition <br> Test) |  |
| 12.2. Persistence <br> and degradability: |  |  |  |  |  |  |  |

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

## For the substance / mixture / residual amounts

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)
080410 waste adhesives and sealants other than those mentioned in 080409
Recommendation:
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
E.g. suitable incineration plant.
E.g. dispose at suitable refuse site.

For contaminated packing material
Pay attention to local and national official regulations.
Empty container completely.
Uncontaminated packaging can be recycled.
Dispose of packaging that cannot be cleaned in the same manner as the substance.
150102 plastic packaging

## SECTION 14: Transport information

## General statements

Transport by road/by rail (ADR/RID)
14.1. UN number or ID number: Not applicable
14.2. UN proper shipping name:

Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group:
14.5. Environmental hazards:

Tunnel restriction code:
Classification code:
LQ:
Transport category:
Transport by sea (IMDG-code)
14.1. UN number or ID number:
14.2. UN proper shipping name:

Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group:
14.5. Environmental hazards:

Marine Pollutant:
EmS:
Transport by air (IATA)
14.1. UN number or ID number:

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
14.2. UN proper shipping name:

Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group:

Not applicable
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14.5. Environmental hazards: Not applicable

### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.
14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

Observe restrictions:
Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!
General hygiene measures for the handling of chemicals are applicable.
Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Directive 2010/75/EU (VOC): 1,44 \%
National requirements/regulations on safety and health protection must be applied when using work equipment.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections:
Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):
Not applicable
The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).
H226 Flammable liquid and vapour.
H351 Suspected of causing cancer by inhalation.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
Carc. - Carcinogenicity
Flam. Liq. - Flammable liquid
Acute Tox. - Acute toxicity - inhalation
Skin Sens. - Skin sensitization

## Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.
Guidelines for the preparation of safety data sheets as amended (ECHA).
Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).
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Safety data sheets for the constituent substances.
ECHA Homepage - Information about chemicals.
GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.
National Lists of Occupational Exposure Limits for each country as amended.
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
ATE Acute Toxicity Estimate
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor
BSEF The International Bromine Council
bw body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx ( $x=10,50$ ) Effect Concentration/Level of $x \%$ on reduction of the biomass (algae, plants)
EC European Community
ECHA European Chemicals Agency
ECx, ELx (x $=0,3,5,10,20,50,80,100)$ Effect Concentration/Level for $x \%$ effect
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
$\operatorname{ErCx}, \mathrm{E} \mu \mathrm{Cx}, \operatorname{ErLx}(\mathrm{x}=10,50) \quad$ Effect Concentration/Level of $\mathrm{x} \%$ on inhibition of the growth rate (algae, plants)
etc. et cetera
EU European Union
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EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
Koc Adsorption coefficient of organic carbon in the soil
Kow octanol-water partition coefficient
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
IUPACInternational Union for Pure Applied Chemistry
LC50 Lethal Concentration to $50 \%$ of a test population
LD50 Lethal Dose to $50 \%$ of a test population (Median Lethal Dose)
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)
NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development
org. organic
OSHA Occupational Safety and Health Administration (USA)
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. $\quad 9 \mathrm{xx}-\mathrm{xxx}-\mathrm{x}$ No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight
(GB)
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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

