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

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Slate Lite Extreme Adhesive

Artikel-Nr.: 100586

Safety data sheet 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

Slate Lite Extreme Adhesive
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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

R&D GmbH
Boschstr. 12
53359 Rheinbach
02226 8299942
mariaus@slate-lite.com

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 / 24 112 112 (WIC)

+1 872 5888271 (WIC)

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)

EUH208-Contains Trimethoxyvinylsilane. May produce an allergic reaction.
EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (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

| 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 % | 1<2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1B, H317 |
| Specific Concentration Limits and ATE | ATE (as inhalation, Dusts or mist): 1,5 mg/l/4h |
| | ATE (as inhalation, Vapours): 16,8 mg/l/4h |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) | |
|--|-------------------------------|
| Registration number (REACH) | 01-2119489379-17-XXXX |
| Index | 022-006-00-2 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 236-675-5 |
| CAS | 13463-67-7 |
| content % | 0,1<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Carc. 2, H351 (as inhalation) |

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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

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

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Unsuitable cleaning product:

Solvent

Thinners

Eye contact

Remove contact lenses.
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

CO2

Extinguishing powder

Water jet spray

Large fire:

Water jet spray / alcohol resistant foam

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

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.

According to size of fire

Full protection, if necessary.

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.

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

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.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Or:

Pick up mechanically and dispose of according to Section 13.

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

Ensure good ventilation.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

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

Store product closed and only in original packaging.

Not to be stored in gangways or stair wells.

Store cool.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters



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The methanol listed below can arise upon contact with water.

Table for Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) with columns for WEL-TWA, WEL-STEL, and Monitoring procedures.

Table for Diisononyl phthalate with columns for WEL-TWA, WEL-STEL, and Monitoring procedures.

Table for Calcium carbonate with columns for WEL-TWA, WEL-STEL, and Monitoring procedures.

Table for Methanol with columns for WEL-TWA, WEL-STEL, and Monitoring procedures, including a list of monitoring methods.

Trimethoxyvinylsilane

Main table for Trimethoxyvinylsilane with columns: Area of application, Exposure route / Environmental compartment, Effect on health, Descriptor, Value, Unit, Note.

Table for Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) with columns: Exposure route / Environmental compartment, Effect on health, Descriptor, Value, Unit, Note.

Table for Diisononyl phthalate with columns: Area of application, Exposure route / Environmental compartment, Effect on health, Descriptor, Value, Unit, Note.

Table for Calcium carbonate with columns: Area of application, Exposure route / Environmental compartment, Effect on health, Descriptor, Value, Unit, Note.

Table for Methanol with columns: Area of application, Exposure route / Environmental compartment, Effect on health, Descriptor, Value, Unit, Note.



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Table with 6 columns: Consumer, Exposure route, Effect, DNEL, Value, Unit. Rows include Human inhalation, dermal, oral and Workers/employees inhalation, dermal.

United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU).
(11) = Inhalable fraction (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 mg Cd/g creatinine in urine (2004/37/CE).
| WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU).
(10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL))
| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (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.
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:
Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
Chemical resistant protective gloves (EN ISO 374).

If applicable
Protective nitrile gloves (EN ISO 374).
Minimum layer thickness in mm:
>= 0,35

Permeation time (penetration time) in minutes:
>= 120
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
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: Paste, liquid.
Colour: According to specification
Odour: Characteristic
Melting point/freezing point: There is no information available on this parameter.
Boiling point or initial boiling point and boiling range: There is no information available on this parameter.
Flammability: There is no information available on this parameter.
Lower explosion limit: There is no information available on this parameter.
Upper explosion limit: There is no information available on this parameter.
Flash point: There is no information available on this parameter.
Auto-ignition temperature: There is no information available on this parameter.
Decomposition temperature: There is no information available on this parameter.
pH: Mixture is non-soluble (in water).
Kinematic viscosity: There is no information available on this parameter.
Solubility: Insoluble
Partition coefficient n-octanol/water (log value): Does not apply to mixtures.
Vapour pressure: There is no information available on this parameter.
Density and/or relative density: 1,52 g/cm3 (relative density)
Relative vapour density: There is no information available on this parameter.
Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: There is no information available on this parameter.
Oxidising liquids: There is no information available on this parameter.

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

reacts with water

10.4 Conditions to avoid

See also section 7.

Strong heat

Moisture

10.5 Incompatible materials

See also section 7.

None known

10.6 Hazardous decomposition products

See also section 5.2

In case of contact with water:

Methanol

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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Table with 7 columns: Toxicity / effect, Endpoint, Value, Unit, Organism, Test method, Notes. Rows include Acute toxicity (oral, dermal, inhalation), Skin corrosion/irritation, Serious eye damage/irritation, Respiratory or skin sensitisation, Germ cell mutagenicity, Carcinogenicity, Reproductive toxicity, Specific target organ toxicity, Aspiration hazard, Symptoms.

Trimethoxyvinylsilane

Table with 7 columns: Toxicity / effect, Endpoint, Value, Unit, Organism, Test method, Notes. Rows include Acute toxicity (oral, dermal, inhalation), Specific target organ toxicity, Aspiration hazard, Symptoms, Skin corrosion/irritation.



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| | | | | | | |
|---|-------|-------|-------|------------------------|---|--|
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Skin Sens. 1B |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative Chinese hamster |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 489 (In Vivo Mammalian Alkaline Comet Assay) | Negative |
| Reproductive toxicity: | NOAEL | 1000 | mg/kg | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development. Tox. Screening Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | NOAEL | >= 75 | mg/kg | Rabbit | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 62,5 | mg/kg | Rat | OECD 408 (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 (Subchronic Inhalation Toxicity - 90-Day Study) | Vapours |
| Symptoms: | | | | | | drowsiness, dizziness, nausea, abdominal pain, breathing difficulties, visual disturbances |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) | | | | | | |
|--|----------|-------|---------|------------------------|--|---|
| Toxicity / effect | Endpoint | 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 Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant, Mechanical irritation possible. |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitising |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | (Ames-Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |

| | | | | | | |
|---|-------|------|-------------------|-----|--|---|
| Reproductive toxicity (Developmental toxicity): | | | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | No indications of such an effect. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Not irritant (respiratory tract). |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 3500 | mg/kg/d | Rat | | (90d) |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 10 | mg/m ³ | Rat | | (90d) |
| Symptoms: | | | | | | mucous membrane irritation, coughing, respiratory distress, drying of the skin. |

| Diisononyl phthalate | | | | | | |
|------------------------------------|----------|--------|---------|------------|---|---------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >10000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >3160 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | >4,4 | mg/l/4h | Rat | Limit-Test | Aerosol |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | Regulation (EC) 440/2008 B.6 (SKIN SENSITISATION) | No (skin contact) |
| Germ cell mutagenicity: | | | | | (Ames-Test) | Negative |
| Symptoms: | | | | | | diarrhoea, nausea and vomiting. |

| Calcium carbonate | | | | | | |
|---|----------|-------|------------|----------|---|-----------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 420 (Acute Oral toxicity - Fixed Dose 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 Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Carcinogenicity: | | | | | | No indications of such an effect. |
| Reproductive toxicity: | NOEL | 1000 | mg/kg bw/d | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development. Tox. Screening Test) | |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | No indications of such an effect. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | No indications of such an effect. |
| Aspiration hazard: | | | | | | No |



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|---|-------|-------|------------|-----|---|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 1000 | mg/kg bw/d | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development, Tox. Screening Test) |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 0,212 | mg/l | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) |

| Methanol | | | | | | |
|---|----------|-------|---------|------------------------|--|---|
| Toxicity / effect | Endpoint | 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 dermal route: | ATE | 300 | mg/kg | | | |
| Acute toxicity, by inhalation: | ATE | 3 | mg/l/4h | | | Vapours |
| Acute toxicity, by inhalation: | ATE | 0,5 | mg/l/4h | | | Dusts or mist |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant/BAS F-Test |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Carcinogenicity: | | | | Mouse | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 1,3 | mg/l | Mouse | OECD 416 (Two-generation Reproduction Toxicity Study) | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | 0,13 | mg/l | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | |
| Symptoms: | | | | | | abdominal pain, vomiting, headaches, gastrointestinal disturbances, drowsiness, visual disturbances, watering eyes, nausea, mental confusion, intoxication, dizziness |

11.2. Information on other hazards

| Slate Lite Extreme Adhesive Artikel-Nr.: 100586 | | | | | | |
|--|----------|-------|------|----------|-------------|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Endocrine disrupting properties: | | | | | | Does not apply to mixtures. |
| Other information: | | | | | | No other relevant information available on adverse effects on health. |

SECTION 12: Ecological information

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

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|--|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and degradability: | | | | | | | n.d.a. |
| 12.3. Bioaccumulative potential: | | | | | | | n.d.a. |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment: | | | | | | | n.d.a. |
| 12.6. Endocrine disrupting properties: | | | | | | | Does not apply to mixtures. |
| 12.7. Other adverse effects: | | | | | | | No information available on other adverse effects on the environment. |
| Other information: | | | | | | | DOC-elimination degree (complexing organic substance) >= 80%/28d: No |

| Trimethoxyvinylsilane | | | | | | | |
|---|------------|------|-------|------|---------------------------|--|-------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 191 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 168,7 | mg/l | Daphnia magna | Regulation (EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILISATION TEST) | |
| 12.1. Toxicity to daphnia: | NOEC/N OEL | 21d | 28 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/N OEL | 72h | 25 | mg/l | Selenastrum capricornutum | | |
| 12.2. Persistence and degradability: | BOD | 28d | 51 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Kow | | 1,1 | | | | Not to be expected 20 °C, QSAR |
| 12.4. Mobility in soil: | | | | | | | Slight |
| 12.5. Results of PBT and vPvB assessment: | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | 5h | 1000 | mg/l | Pseudomonas putida | | |
| Toxicity to bacteria: | EC50 | 3h | >2500 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm)

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|-------|------|---------------------------------|--|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 16 | mg/l | Pseudokirchneriella subcapitata | U.S. EPA-600/9-78-018 | |



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| | | | | | | | |
|--|------------|-----|--------|-------|-------------------------|--|---------------------------------------|
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances |
| 12.3. Bioaccumulative potential: | BCF | 42d | 9,6 | | | | Not to be expected |
| 12.3. Bioaccumulative potential: | BCF | 14d | 19-352 | | | | Oncorhynchus 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 | >10000 | mg/l | Pseudomonas fluorescens | | |
| Toxicity to annelids: | NOEC/N OEL | | >1000 | mg/kg | Eisenia foetida | | |
| Water solubility: | | | | | | | Insoluble 20 °C |

| Diisononyl phthalate | | | | | | | |
|--------------------------------------|------------|-------|------------|---------|-------------------------|---|-----------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >102 | mg/l | Brachydanio rerio | 92/69/EC | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >=74 | mg/l | Daphnia magna | 84/449/EEC C.2 | |
| 12.1. Toxicity to daphnia: | NOEC/N OEL | 21d | >=100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | NOEC/N OEL | 72h | 88 | mg/l | Scenedesmus subspicatus | | |
| 12.1. Toxicity to algae: | EC50 | 72h | >88 | mg/l | Scenedesmus subspicatus | 84/449/EEC C.3 | |
| 12.2. Persistence and degradability: | | 28d | 81 | % | activated sludge | Regulation (EC) 440/2008 C.4-C (DETERMINATION OF 'READY' BIODEGRADABILITY - CO2 EVOLUTION TEST) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Kow | | 8,8-9,7 | | | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method) | Analogous conclusion |
| 12.3. Bioaccumulative potential: | BCF | 14d | <3 | | | | Analogous conclusion |
| 12.4. Mobility in soil: | Koc | | >5000 | | | | |
| 12.4. Mobility in soil: | H (Henry) | | 0,00000149 | atm³/m³ | | | |
| Toxicity to bacteria: | EC50 | 30min | >83,9 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other organisms: | NOEC/N OEL | 56d | >982,4 | mg/kg | Eisenia foetida | | |
| Other organisms: | LC50 | 14d | >7372 | mg/kg | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | |

| Calcium carbonate | | | | | | | |
|----------------------------|----------|------|-------|------|---------------------|--|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | | | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | No observation with saturated solution of test material. |
| 12.1. Toxicity to daphnia: | EC50 | 48h | | | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | No observation with saturated solution of test material. |

| | | | | | | | |
|--|------------|-----|--------|----------|-------------------------|--|---------------------------------------|
| 12.1. Toxicity to algae: | EC50 | 72h | >14 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/N OEL | 72h | 14 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| 12.4. Mobility in soil: | | | | | | | n.a. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Toxicity to bacteria: | NOEC/N OEL | 3h | 1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other organisms: | EC50 | 21d | >100 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Glycine max |
| Other organisms: | EC50 | 21d | >1000 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Lycopersicon esculentum |
| Other organisms: | EC50 | 21d | >1000 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Avena sativa |
| Other organisms: | NOEC/N OEL | 21d | 1000 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Glycine max |
| Other organisms: | NOEC/N OEL | 21d | 1000 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Lycopersicon esculentum |
| Other organisms: | NOEC/N OEL | 21d | 1000 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Avena sativa |
| Other organisms: | EC50 | 14d | >1000 | mg/kg dw | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | |
| Other organisms: | NOEC/N OEL | 14d | 1000 | mg/kg dw | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | |
| Other organisms: | EC50 | 28d | >1000 | mg/kg dw | | OECD 216 (Soil Microorganisms - Nitrogen Transformation Test) | |
| Other organisms: | NOEC/N OEL | 28d | 1000 | mg/kg dw | | OECD 216 (Soil Microorganisms - Nitrogen Transformation Test) | |
| Water solubility: | | | 0,0166 | g/l | | OECD 105 (Water Solubility) | 20°C |

| Methanol | | | | | | | |
|----------------------------|----------|------|-------|------|---------------------------------|--|------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 15400 | mg/l | Lepomis macrochirus | | EPA-660/3-75-009 |
| 12.1. Toxicity to daphnia: | EC50 | 96h | 18260 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 96h | 22000 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |



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| | | | | | | | |
|--|---------|-----|-------|------|--------------------|--|-------------------------------------|
| 12.2. Persistence and degradability: | | 28d | 99 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | | 28400 | | Chlorella vulgaris | | Not to be expected |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | IC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | Log Pow | | - | | | | |
| Other information: | DOC | | <70 | % | | | |
| Other information: | BOD | | >60 | % | | | |

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)

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

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.

15 01 10 packaging containing residues of or contaminated by hazardous substances

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: Not applicable

14.5. Environmental hazards: Not applicable

Tunnel restriction code: Not applicable

Classification code: Not applicable

LQ: Not applicable

Transport category: Not applicable

Transport by sea (IMDG-code)

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: Not applicable

14.5. Environmental hazards: Not applicable

Marine Pollutant: Not applicable

EmS: Not applicable

Transport by air (IATA)

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: Not applicable

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): < 0,3 %

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:

8

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.

H226 Flammable liquid and vapour.

H351 Suspected of causing cancer by inhalation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

Flam. Liq. — Flammable liquid

Acute Tox. — Acute toxicity - inhalation

Skin Sens. — Skin sensitization

Carc. — Carcinogenicity

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).

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 |
| 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 |
| 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) |
| ErCx, EyCx, ErLx (x = 10, 50) | Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) |
| etc. | et cetera |
| EU | European Union |
| 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 |
| IUPAC | International 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 |
| mg/kg bw | mg/kg body weight |
| mg/kg bw/d, mg/kg bw/day | mg/kg body weight/day |
| mg/kg dw | mg/kg dry weight |
| mg/kg wwt | mg/kg wet weight |
| 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 |



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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. 6/7/8/9xx-xxx-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

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.

These statements were made by:

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