# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

### 1.1 Product identifier

## Liquimate Kraftkleber 8050 MS

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

**Relevant identified uses of the substance or mixture:**

Seam sealant

**Uses advised against:**

No information available at present.

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

(GB)

LIQUI MOLY GmbH
Jerg-Wieland-Str. 4
89081 Ulm-Lehr
Tel.: (+49) 0731-1420-0
Fax: (+49) 0731-1420-88

LIQUI MOLY UK
1310 Solihull Parkway
Birmingham Business Park
B37 7YB Solihull
Tel: +44 121 796 5365

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:**

(GB)

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

**Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (LMR)
+1 872 5888271 (LMR)

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

| **3-(trimethoxysilyl)propylamine** | |
|---|---|
| **Registration number (REACH)** | 01-2119510159-45-XXXX |
| **Index** | --- |
| **EINECS, ELINCS, NLP, REACH-IT List-No.** | 237-511-5 |
| **CAS** | 13822-56-5 |
| **content %** | 1-<2,5 |
| **Classification according to Regulation (EC) 1272/2008 (CLP), M-factors** | Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |

| **Dioctyltin oxide** | |
|---|---|
| **Registration number (REACH)** | 01-2119971268-27-XXXX |
| **Index** | --- |
| **EINECS, ELINCS, NLP, REACH-IT List-No.** | 212-791-1 |
| **CAS** | 870-08-6 |
| **content %** | 0,1-<0,5 |
| **Classification according to Regulation (EC) 1272/2008 (CLP), M-factors** | STOT SE 2, H371 |

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.

### 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.
Sensitive individuals:
Allergic reaction possible.

### 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
Extinction powder
Water jet spray
Large fire:
Water jet spray / alcohol resistant foam

### Unsuitable extinguishing media
High volume water jet

### 5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Oxides of carbon
Silicon dioxide
Toxic gases
Oxides of nitrogen

### 5.3 Advice for firefighters
For personal protective equipment see Section 8.
Use explosion-proof equipment.
Protective respirator with independent air supply.
Cool container at risk with water.
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.

### 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.

Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.

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

Pick up mechanically and dispose of according to Section 13.
Or:
Soak up with absorbent material (e.g. sand, earth) 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 or 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

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Recommended storage temperature:
10 - 35°C
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

The methanol listed below can arise upon contact with water.

| GB Chemical Name | Dioctyltin oxide | |
|---|---|---|
| WEL-TWA: 0,1 mg/m3 (Sn) (tin compounds, organic) | WEL-STEL: 0,2 mg/m3 (Sn) (tin compounds, organic) | --- |
| Monitoring procedures: --- | | |
| BMGV: --- | Other information: Sk (tin compounds, organic) | |

| GB Chemical Name | Carbon black | |
|---|---|---|
| WEL-TWA: 3,5 mg/m3 | WEL-STEL: 7 mg/m3 | --- |
| Monitoring procedures: --- | | |
| BMGV: --- | Other information: --- | |

| GB Chemical Name | Calcium carbonate | |
|---|---|---|
| WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust) | WEL-STEL: --- | --- |
| Monitoring procedures: --- | | |
| BMGV: --- | Other information: --- | |

| GB Chemical Name | Methanol | |
|---|---|---|
| WEL-TWA: 200 ppm (266 mg/m3) (WEL-TWA), 200 ppm (260 mg/m3) (EU) | WEL-STEL: 250 ppm (333 mg/m3 (WEL-STEL) | --- |
| Monitoring procedures: | - Draeger - Alcohol 25/a Methanol (81 01 631)<br>- Compur - KITA-119 SA (549 640)<br>- Compur - KITA-119 U (549 657)<br>- DFG Meth. Nr. 6 (D) (Loesungsmittelgemische 6), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 65-1 (2004) | |

| | |
|---|---|
| - NIOSH 2000 (METHANOL) - 1998<br>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996<br>NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR<br>- SPECTROMETRY) - 2016<br>- Draeger - Alcohol 100/a (CH 29 701) | |
| BMGV: --- | Other information: Sk (WEL, EU) |

| Chemical Name | general dust limit | |
|---|---|---|
| WEL-TWA: 10 mg/m3 (inhal. dust), 4 mg/m3 (respir. dust) | WEL-STEL: --- | --- |
| Monitoring procedures: --- | | |
| BMGV: --- | Other information: --- | |

**Trimethoxyvinylsilane**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---|---|---|---|---|---|---|
| | Environment - freshwater | | PNEC | 0,4 | mg/l | Assessment factor: 50 |
| | Environment - marine | | PNEC | 0,04 | mg/l | Assessment factor: 500 |
| | Environment - water, sporadic (intermittent) release | | PNEC | 1,21 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 6,6 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,29 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,15 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,048 | mg/kg dw | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 0,1 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,63 | mg/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 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 | mg/kg bw/d | |
| 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 | |

**3-(trimethoxysilyl)propylamine**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---|---|---|---|---|---|---|
| | Environment - freshwater | | PNEC | 0,5 | mg/l | |
| | Environment - marine | | PNEC | 0,05 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 3,3 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1,8 | mg/kg dry weight | |
| | Environment - sediment, marine | | PNEC | 0,18 | mg/kg dry weight | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Environment - soil | | PNEC | 0,045 | mg/kg dry weight | |
| | Environment - sewage treatment plant | | PNEC | 0,81 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 11,1 | mg/kg | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 17,4 | mg/m3 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 5 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 1,7 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,5 | mg/kg | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 5 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 17,4 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 8,3 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 7,1 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 1 | mg/kg | |

**Dioctyltin oxide**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---|---|---|---|---|---|---|
| | Environment - sediment, freshwater | | PNEC | 0,028 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,0028 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,0009 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,002 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,05 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,004 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,025 | mg/kg bw/d | |

**Carbon black**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---|---|---|---|---|---|---|
| | Environment - freshwater | | PNEC | 1 | mg/l | |
| | Environment - marine | | PNEC | 0,1 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,06 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 1 | mg/m3 | |

**Calcium carbonate**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 6,1 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 1,06 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 6,1 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 4,26 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m3 | |

| **Methanol** | | | | | | |
|---|---|---|---|---|---|---|
| **Area of application** | **Exposure route / Environmental compartment** | **Effect on health** | **Descriptor** | **Value** | **Unit** | **Note** |
| | Environment - freshwater | | PNEC | 154 | mg/l | |
| | Environment - marine | | PNEC | 15,4 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 570,4 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 57,04 | mg/kg | |
| | Environment - soil | | PNEC | 23,5 | mg/kg | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 1540 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 26 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 26 | mg/m3 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 26 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 26 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 20 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 130 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 130 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 20 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 130 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 130 | mg/m3 | |

GB - 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, 2019/1831/EU or 2024/869/EU:
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

## 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:
With danger of contact with eyes.
Tight fitting protective goggles with side protection (EN ISO 16321-1).

Skin protection - Hand protection:
Chemical resistant protective gloves (EN ISO 374).
Recommended
Protective gloves in butyl rubber (EN ISO 374).
Protective Neoprene® / polychloroprene gloves (EN ISO 374).
Protective nitrile gloves (EN ISO 374).
Minimum layer thickness in mm:
>= 0,7
Permeation time (penetration time) in minutes:
>= 480
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.

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, solid. |
| Colour: | Black |
| 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: | Does not apply to solids. |
| Upper explosion limit: | Does not apply to solids. |
| Flash point: | Does not apply to solids. |
| Auto-ignition temperature: | Does not apply to solids. |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | Mixture is non-soluble (in water). |
| Kinematic viscosity: | 6000-14000 Pas (20°C, Dynamic viscosity ) |
| 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: | 1,48 g/cm3 |
| Relative vapour density: | Does not apply to solids. |
| Particle characteristics: | There is no information available on this parameter. |

### 9.2 Other information

| | |
|---|---|
| Explosives: | Product is not explosive. |
| Oxidising liquids: | There is no information available on this parameter. |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

reacts with water

### 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

Moisture

### 10.5 Incompatible materials

None known

### 10.6 Hazardous decomposition products

See also section 5.2
When hardening:
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).

| **Liquimate Kraftkleber 8050 MS** | | | | | | |
|---|---|---|---|---|---|---|
| **Toxicity / effect** | **Endpoint** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | ATE | 506,6 | mg/l/4h | | | calculated value, Vapours |
| Acute toxicity, by inhalation: | ATE | >5 | mg/l/4h | | | calculated value, Dust |

| | | | | | | |
|---|---|---|---|---|---|---|
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | OECD 437 (Bovine Corneal Opacity + Permeability Test for Identif. Ocular Corros. + Severe Irritants) | Not irritant, Analogous conclusion |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

| **Trimethoxyvinylsilane** | | | | | | |
|---|---|---|---|---|---|---|
| **Toxicity / effect** | **Endpoint** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Acute toxicity, by oral route: | LD50 | 7120 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | 3200 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 16,8 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Acute toxicity, by inhalation: | ATE | 16,8 | mg/l/4h | | | Vapours |
| Acute toxicity, by inhalation: | ATE | 1,5 | mg/l/4h | | | Dusts or mist |
| 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 | 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: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 489 (In Vivo Mammalian Alkaline Comet Assay) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 1000 | mg/kg | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. 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 |

**3-(trimethoxysilyl)propylamine**

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|
| Acute toxicity, by oral route: | LD50 | 3030 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | > 10000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Dam. 1 |
| 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: | | | | Human being | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative, Analogous conclusion Chinese hamster |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 200 | mg/kg | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Target organ(s): liver, Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | LOAEL | 600 | mg/kg | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Target organ(s): liver, Analogous conclusion |

**Carbon black**

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >3000 | mg/kg | | | |
| 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 | OECD 406 (Skin Sensitisation) | Not sensitizising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Carcinogenicity: | | | | Mouse | | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOEL | 0,0011 | mg/l | | | References, Target organ(s): lung(90d) |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 137 | mg/kg | Mouse | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 52 | mg/kg | Rat | | |
| Aspiration hazard: | | | | | | No |

| **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 - Fixe 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/Developm. 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. |
| 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/Developm. 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) | |
| Aspiration hazard: | | | | | | No |

| **Methanol** | | | | | | |
|---|---|---|---|---|---|---|
| **Toxicity / effect** | **Endpoint** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Acute toxicity, by oral route: | ATE | 300 | mg/kg | | | |
| Acute toxicity, by oral route: | LDLo | 300 | mg/kg | Human being | | Experiences on persons. |
| Acute toxicity, by dermal route: | ATE | 300 | mg/kg | | | |
| Acute toxicity, by dermal route: | LD50 | 17100 | mg/kg | Rabbit | | Does not conform with EU classification. |
| 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 (BASF-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) | |
| Aspiration hazard: | | | | | | Negative |
| Symptoms: | | | | | | abdominal pain, vomiting, headaches, gastrointestinal disturbances, drowsiness, visual disturbances, watering eyes, nausea, mental confusion, intoxication, dizziness |

## 11.2. Information on other hazards

| Liquimate Kraftkleber 8050 MS | | | | | | |
|---|---|---|---|---|---|---|
| **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).

| Liquimate Kraftkleber 8050 MS | | | | | | | |
|---|---|---|---|---|---|---|---|
| **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. |

**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/NOEL | 21d | 28,1 | 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/NOEL | 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)) | |

**3-(trimethoxysilyl)propylamine**

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|---|
| 12.1. Toxicity to fish: | LC50 | 96h | > 934 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12.1. Toxicity to daphnia: | EC50 | 48h | 331 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | EC50 | 72h | > 1000 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | Analogous conclusion |
| 12.2. Persistence and degradability: | | 28d | 67 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | |
| 12.2. Persistence and degradability: | | 28d | 76 | % | | OECD 306 (Biodegradability in Seawater) | |
| 12.3. Bioaccumulative potential: | Log Kow | | 0,2 | | | | 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 |
| 12.6. Endocrine disrupting properties: | | | | | | | Negative |
| Toxicity to bacteria: | EC50 | | 3400 | mg/l | activated sludge | | |
| Toxicity to bacteria: | EC10 | 6h | 13 | mg/l | Pseudomonas fluorescens | | Analogous conclusion |

| **Carbon black** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Toxicity / effect** | **Endpoint** | **Time** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| 12.1. Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 24h | >5600 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 3d | 10000 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Not biodegradable |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| Toxicity to bacteria: | EC0 | 3h | >=800 | mg/l | activated sludge | Regulation (EC) 440/2008 C.22 (SOIL MICROORGANISMS - CARBON TRANSFORMATION TEST) | |
| Water solubility: | | | | | | | Insoluble, Product floats on the water surface. |

| **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/NOEL | 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/NOEL | 3h | 1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other organisms: | EC50 | 21d | >1000 | 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/NOEL | 21d | 1000 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Glycine max |
| Other organisms: | NOEC/NOEL | 21d | 1000 | mg/kg dw | | OECD 208 (Terrestrial Plants, Growth Test) | Lycopersicon esculentum |
| Other organisms: | NOEC/NOEL | 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/NOEL | 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/NOEL | 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 | OECD 203 (Fish, Acute Toxicity Test) | EPA-660/3-75-009 |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 208 | mg/l | Daphnia magna | QSAR | |
| 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) | |
| 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 |
| 12.3. Bioaccumulative potential: | BCF | 72h | <10 | | Cyprinus caprio | | |
| 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 | | -0,77 | | | | |
| 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.

## 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)!
Regulation (EC) No 1907/2006, Annex XVII
Dioctyltin oxide
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.
General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 0 g/l

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.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H371 May cause damage to organs.

Flam. Liq. — Flammable liquid
Acute Tox. — Acute toxicity - inhalation
Skin Sens. — Skin sensitization
Skin Irrit. — Skin irritation
Eye Dam. — Serious eye damage
STOT SE — Specific target organ toxicity - single exposure

### 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, EµCx, 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
PMT Persistent, mobile and toxic
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

vPvM Very persistent and very mobile

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:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0**

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.