

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Hybrid Sealing Compound 383
Hybrid-Dichtungsmasse 383

Revision date : 21.10.2021

Print date : 21.10.2021

Version (Revision) : 6.0.1 (6.0.0)

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

1.1 Product identifier

Hybrid Sealing Compound 383
Hybrid-Dichtungsmasse 383

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

Relevant identified uses

Products Category [PC]

PC1 - Adhesives, sealants

Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co KG
www.brillux.de

Street : Weseler Straße 401

Postal code/city : D - 48163 Münster

Telephone : +49 (0)251-7188-0

Telefax : +49 (0)251-7188-280

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):
(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)
Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

None

Additional information

This product is not dangerous according to the regulation (EC) No. 1272/2008 (CLP).

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Special rules for supplemental label elements for certain mixtures

EUH208	Contains OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE ; TRIMETHOXYVINYL SILANE ; 3-AMINOPROPYL TRIETHOXYSILANE. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex

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XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Mixture based on components, which are called following, and other components.

Hazardous ingredients

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; REACH No. : 01-2119979085-27 ; EC No. : 309-629-8; CAS No. : 100545-48-0

Weight fraction : $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

TITANIUM DIOXIDE ; EC No. : 236-675-5; CAS No. : 13463-67-7

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Carc. 2 ; H351i

TRIMETHOXYVINYLILANE ; REACH No. : 01-2119513215-52 ; EC No. : 220-449-8; CAS No. : 2768-02-7

Weight fraction : $\geq 0,1 - < 1 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332 Skin Sens. 1B ; H317

3-AMINOPROPYLTRIETHOXYISILANE ; REACH No. : 01-2119480479-24 ; EC No. : 213-048-4; CAS No. : 919-30-2

Weight fraction : $\geq 0,1 - < 1 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317

N-(3-(TRIMETHOXYISILYL)PROPYL)ETHYLENEDIAMINE ; REACH No. : 01-2119970215-39 ; EC No. : 217-164-6; CAS No. : 1760-24-3

Weight fraction : $\geq 0,1 - < 1 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 STOT SE 3 ; H335

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. If unconscious no administration by mouth, storage in recovery position and seek medical advice. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

By hydrolysis methanol is released as a toxic substance in small concebration.

4.2 Most important symptoms and effects, both acute and delayed

Allergic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

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By hydrolysis methanol is released as a toxic substance in small concentration.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire: Use alcohol resistant foam, CO₂, powders or water spray for extinction.

Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters

When extinguishing fires, use breathing apparatus with an independent source of air.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

For cleaning up

Take up mechanically and dryly, remove in accordance with regulations. The areas concerned cleaning with a customary water based cleaning agent, not using organic solvents if possible.

Thoroughly clean contaminated objects and floors and observe environmental regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

No special measures necessary in the case of regulation storage and handling. Ensure a good ventilation in room and working area. Avoid contact with skin and eyes For personal protection see Section 8. Keep out of reach of children. Read label before use.

Measures to prevent fire

This product is not flammable. Cool endangered containers with water.

Advices on general occupational hygiene

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Offering protection against wetness and humidity. Keep out of the reach of children.

Hints on joint storage

Store away from foodstuffs.

Storage class (TRGS 510) : 10

Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE : This product can not be encoded in accordance with GISBAU.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

METHANOL ; CAS No. : 67-56-1

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 100 ppm / 130 mg/m³

Peak limitation : 2(II)

Remark : H, Y

Version : 27.10.2020

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 200 ppm / 380 mg/m³

Peak limitation : 4(II)

Remark : Y

Version : 27.10.2020

Biological limit values

METHANOL ; CAS No. : 67-56-1

Limit value type (country of origin) : TRGS 903 (D)

Parameter : Methanol / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts

Limit value : 15 mg/l

Version : 13.03.2020

DNEL-/PNEC-values

DNEL/DMEL

Limit value type : DNEL Consumer (systemic) (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,83 mg/kg

Limit value type : DMEL worker (systemic) (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 3,35 mg/kg

Limit value type : DNEL Consumer (systemic) (TRIMETHOXYVINYLILANE ; CAS No. : 2768-02-7)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 18,9 mg/m³

Limit value type : DNEL Consumer (systemic) (N-(3-(TRIMETHOXYISILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)

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Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	2,5 mg/kg
Safety factor :	1 day(s)
Limit value type :	DNEL Consumer (systemic) (3-AMINOPROPYLTRIETHOXYSILANE ; CAS No. : 919-30-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	17 mg/m ³
Limit value type :	DNEL Consumer (systemic) (TRIMETHOXYVINYLISILANE ; CAS No. : 2768-02-7)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	7,8 mg/kg
Safety factor :	1 day(s)
Limit value type :	DNEL Consumer (systemic) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	8,7 mg/m ³
Limit value type :	DNEL Consumer (systemic) (3-AMINOPROPYLTRIETHOXYSILANE ; CAS No. : 919-30-2)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	17,4 - 3
Limit value type :	DNEL Consumer (systemic) (TRIMETHOXYVINYLISILANE ; CAS No. : 2768-02-7)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0,3 mg/kg
Safety factor :	1 day(s)
Limit value type :	DNEL Consumer (systemic) (3-AMINOPROPYLTRIETHOXYSILANE ; CAS No. : 919-30-2)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	5 mg/kg
Safety factor :	1 day(s)
Limit value type :	DNEL Consumer (systemic) (3-AMINOPROPYLTRIETHOXYSILANE ; CAS No. : 919-30-2)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	5 mg/kg
Safety factor :	1 day(s)
Limit value type :	DMEL worker (systemic) (3-AMINOPROPYLTRIETHOXYSILANE ; CAS No. : 919-30-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	59 mg/m ³
Limit value type :	DMEL worker (systemic) (TRIMETHOXYVINYLISILANE ; CAS No. : 2768-02-7)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	27,6 mg/kg
Limit value type :	DMEL worker (systemic) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	35,5 mg/kg
Limit value type :	DMEL worker (systemic) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)

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Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	5 mg/kg
Safety factor :	1 day(s)
Limit value type :	DMEL worker (systemic) (3-AMINOPROPYLTRIETHOXSILANE ; CAS No. : 919-30-2)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	59 mg/m ³
Limit value type :	DMEL worker (systemic) (TRIMETHOXYVINYLISILANE ; CAS No. : 2768-02-7)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	3,9 mg/kg
Safety factor :	1 day(s)
Limit value type :	DMEL worker (systemic) (3-AMINOPROPYLTRIETHOXSILANE ; CAS No. : 919-30-2)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	8,3 mg/m ³
Safety factor :	1 day(s)
Limit value type :	DMEL worker (systemic) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	5 mg/kg
Safety factor :	1 day(s)
Limit value type :	DMEL worker (systemic) (3-AMINOPROPYLTRIETHOXSILANE ; CAS No. : 919-30-2)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	8,3 mg/kg
Safety factor :	1 day(s)

PNEC

Limit value type :	PNEC (Aquatic, freshwater) (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Exposure route :	Water (Including sewage plant)
Limit value :	0,34 mg/l
Limit value type :	PNEC (Aquatic, marine water) (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Exposure route :	Water (Including sewage plant)
Limit value :	0,034 mg/l
Limit value type :	PNEC (Sewage treatment plant) (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Exposure route :	Water (Including sewage plant)
Limit value :	110 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (3-AMINOPROPYLTRIETHOXSILANE ; CAS No. : 919-30-2)
Exposure route :	Water (Including sewage plant)
Limit value :	0,33 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Water (Including sewage plant)
Limit value :	0,062 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Water (Including sewage plant)
Limit value :	0,62 mg/l
Limit value type :	PNEC (Aquatic, marine water) (3-AMINOPROPYLTRIETHOXSILANE ; CAS No. : 919-30-2)

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Exposure route :	Water (Including sewage plant)
Limit value :	0,033 mg/l
Limit value type :	PNEC (Aquatic, marine water) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Water (Including sewage plant)
Limit value :	0,0062 mg/l
Limit value type :	PNEC (Sediment, freshwater) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Soil
Limit value :	0,05 mg/kg
Limit value type :	PNEC (Sediment, marine water) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Soil
Limit value :	0,005 mg/kg
Limit value type :	PNEC (Soil) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Soil
Limit value :	0,0075 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (N-(3-(TRIMETHOXSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route :	Water (Including sewage plant)
Limit value :	25 mg/l

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use protection glasses in case of spattering.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing.

Respiratory protection

At a processing of the product a respiratory protection is not necessary. Do not inhale the vapour.

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe vapour.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance

Physical state : Pasty.

Colour : conformable to product designation.

Odour

Poor, characteristic.

Safety characteristics

Melting point/freezing point :	(1013 hPa)	No data available
Initial boiling point and boiling range :	(1013 hPa)	No data available
Flash point :	>	61 °C
Lower explosion limit :		not applicable
Upper explosion limit :		not applicable
Vapour pressure :	(50 °C)	< 1100 hPa
Density :	(20 °C)	1,42 - 1,5 g/cm ³
Water solubility :	(20 °C)	Reacts with water.
pH :		No data available

9.2 Other information

Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage. Product is hardening with moisture.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter :	LD50 (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

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Parameter : LD50 (TRIMETHOXYVINYL SILANE ; CAS No. : 2768-02-7)
Exposure route : Oral
Species : Rat
Effective dose : 7120 - 7236 mg/kg
Parameter : LD50 (3-AMINOPROPYL TRIETHOXY SILANE ; CAS No. : 919-30-2)
Exposure route : Oral
Species : Rat
Effective dose : 1490 mg/kg
Parameter : LD50 (N-(3-(TRIMETHOXY SILYL) PROPYL) ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route : Oral
Species : Rat
Effective dose : 2295 mg/kg

Acute dermal toxicity

Parameter : LD50 (TRIMETHOXYVINYL SILANE ; CAS No. : 2768-02-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : 3360 µL/kg
Parameter : LD50 (3-AMINOPROPYL TRIETHOXY SILANE ; CAS No. : 919-30-2)
Exposure route : Dermal
Species : Rabbit
Effective dose : 4076 mg/kg
Parameter : LD50 (N-(3-(TRIMETHOXY SILYL) PROPYL) ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Exposure route : Inhalation
Species : Rat
Effective dose : 5,05 mg/kg
Parameter : LC50 (TRIMETHOXYVINYL SILANE ; CAS No. : 2768-02-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 16,8 mg/l
Parameter : LC50 (3-AMINOPROPYL TRIETHOXY SILANE ; CAS No. : 919-30-2)
Exposure route : Inhalation
Species : Rat
Effective dose : > 144 mg/l

Corrosion

- To the skin: Not expecting any damage or irritancy.
- At the eye: Not expecting any damage or irritancy.

Respiratory or skin sensitisation

The product contains sensitizing substances, which may produce an allergic reaction (see section 2 and 3).

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

STOT-single exposure

No risk expected.

STOT-repeated exposure

No risk expected.

Aspiration hazard

No risk expected.

11.4 Other adverse effects

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Other observations

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.
At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LL50 (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	> 10 mg/l
Exposure time :	96 h
Parameter :	LC50 (N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Species :	Brachydanio rerio (zebra-fish)
Effective dose :	597 mg/l
Exposure time :	96 h
Parameter :	LC50 (TRIMETHOXYVINYL-SILANE ; CAS No. : 2768-02-7)
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	191 mg/l
Exposure time :	96 h
Parameter :	LC50 (3-AMINOPROPYLTRIETHOXYSILANE ; CAS No. : 919-30-2)
Species :	Brachydanio rerio (zebra-fish)
Effective dose :	> 934 mg/l
Exposure time :	96 h

Acute (short-term) toxicity to crustacea

Parameter :	EL50 (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Species :	Daphnia magna (Big water flea)
Effective dose :	> 10 mg/l
Exposure time :	48 h
Parameter :	EC50 (N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE ; CAS No. : 1760-24-3)
Species :	Daphnia magna (Big water flea)
Effective dose :	81 mg/l
Exposure time :	48 h
Parameter :	EC50 (TRIMETHOXYVINYL-SILANE ; CAS No. : 2768-02-7)
Species :	Daphnia magna (Big water flea)
Effective dose :	168,7 mg/l
Exposure time :	48 h
Parameter :	EC50 (3-AMINOPROPYLTRIETHOXYSILANE ; CAS No. : 919-30-2)
Species :	Daphnia magna (Big water flea)
Effective dose :	331 mg/l
Exposure time :	48 h

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter :	EL50 (OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE ; CAS No. : 100545-48-0)
Species :	Pseudokirchneriella subcapitata
Effective dose :	> 100 mg/l
Exposure time :	72 h

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Parameter : EC50 (TRIMETHOXYVINYLISILANE ; CAS No. : 2768-02-7)
Species : Desmodesmus subspicatus
Effective dose : > 957 mg/l
Exposure time : 72 h
Parameter : EC50 (3-AMINOPROPYLTRIETHOXSILANE ; CAS No. : 919-30-2)
Species : Desmodesmus subspicatus
Effective dose : > 1000 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.
No information about the individual components is available either.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.
A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.
The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Disposal-definition No. (AVV-Code): 08 04 10.

Waste treatment options

Appropriate disposal / Product

Packaging with not dry uped residues have to dropped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains.

Appropriate disposal / Package

Only empty packaging can be transferred to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

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No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

National regulations

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

Additional information

The product is classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils the criteria for solid substances according to the TRwS 779 number 2.1.1.

15.2 Chemical safety assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds
ATEmix: Calculated acute toxicity estimate of mixture
BCF: Bio-Concentration Factor
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction
CSR: Chemical Safety Report
DNEL: Derived No Effect Level
EC: European Commission
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EWC: European Waste Catalogue
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code

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IMO: International Maritime Organization
LC50: Lethal concentration 50%
LD50: Lethal Dose 50%
LOAEL: Lowest Observed Adverse Effect Level
LOEL: Lowest observable effect level
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)
MARPOL: Convention for the Prevention of Marine Pollution from Ships
MVZ: molar ratio
n.a.: Not applicable
n.d.: Not determined
n.r.: Not relevant
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OEL: Occupational Exposure Limit
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RCP: Reciprocal calculation procedure
REACH: Registration, Evaluation and Authorization of Chemical)
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
SVHC: Substance of Very High Concern
TLV - TWA: Threshold Limit Value - Time Weighted Average
VOC: Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351i	Suspected of causing cancer if inhaled.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.