

Safety Data Sheet

according to UK REACH Regulation

Kleb- und Dichtstoff LO-SEALFIX weiß 290ml

Revision date: 29.12.2021

Product code: ZKR186LO

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Interior and exterior joining and bonding. Multiple fixings construction: plinths, profiles, insulation and decorative panels. Excellent adherence on metals supports (aluminium, galvanized steel, copper, glass, PVC, building materials concrete, wood, bricks, stones). Adheres on wet supports. Chemical resistance: Resists fresh, salted and hard water as well as aqueous household agents, spills of hydrocarbons, diluted acids and bases. The product does not withstand solvents or a permanent contact swimming pool water. Excellent resistance to UV, ageing and weathering.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Lorencic GmbH Nfg. & Co KG		
Street:	Puchstraße 208		
Place:	A-8055 Graz		
Telephone:	+43 (0) 316 / 47 25 64 32	Telefax:	+43 (0) 316 / 47 25 64 78
Responsible Department:	Dr. Gans-Eichler	e-mail:	info@tge-consult.de
	Chemieberatung GmbH	Tel.:	+49(0)2534 6441185
	Otto-Hahn-Str. 36		www.tge-consult.de
	D-48161 Münster		

1.4. Emergency telephone number:

Poison Control Centre Vienna: +43 (0) 1 406 43 43

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Causes serious eye irritation.

May cause an allergic skin reaction.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

trimethoxyvinylsilane; trimethoxy(vinyl)silane

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Signal word: Warning

Pictograms:

**Hazard statements**

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Special labelling of certain mixtures

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH: N-(3-(trimethoxysilyl)propyl)ethylenediamine.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
13822-56-5	3-(trimethoxysilyl)propylamine			1 - < 2,5 %
	237-511-5		01-2119510159-45	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane			< 2,5 %
	220-449-8	014-049-00-0	01-2119513215-52	
	Flam. Liq. 3, Acute Tox. 4, Skin Sens. 1B; H226 H332 H317			
13463-67-7	titanium dioxide			< 2,5 %
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine			0.5 - < 1 %
	217-164-6		01-2119970215-39	
	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1B, STOT RE 2; H332 H318 H317 H373			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
13822-56-5	237-511-5	3-(trimethoxysilyl)propylamine	1 - < 2,5 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		
2768-02-7	220-449-8	trimethoxyvinylsilane; trimethoxy(vinyl)silane	< 2,5 %
	inhalation: LC50 = 16,8 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg		
13463-67-7	236-675-5	titanium dioxide	< 2,5 %
	inhalation: LC50 = [3,43 - 6,82] mg/l (dusts or mists); oral: LD50 = > 5000 mg/kg		
1760-24-3	217-164-6	N-(3-(trimethoxysilyl)propyl)ethylenediamine	0.5 - < 1 %
	inhalation: LC50 = [1,49 - 2,44] mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2295 mg/kg		

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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Safe handling: see section 7

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

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6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
13822-56-5	3-(trimethoxysilyl)propylamine			

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Worker DNEL, long-term	inhalation	systemic	58 mg/m ³
Worker DNEL, long-term	dermal	systemic	8,3 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	17 mg/m ³
Consumer DNEL, long-term	dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane		
Worker DNEL, long-term	inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,69 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,04 mg/m ³
Consumer DNEL, acute	inhalation	systemic	93,4 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,3 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	26,9 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,3 mg/kg bw/day
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine		
Worker DNEL, long-term	inhalation	systemic	260 mg/m ³
Worker DNEL, acute	inhalation	systemic	260 mg/m ³
Worker DNEL, long-term	inhalation	local	0,6 mg/m ³
Worker DNEL, acute	inhalation	local	5,36 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	50 mg/m ³
Consumer DNEL, acute	inhalation	systemic	50 mg/m ³
Consumer DNEL, long-term	inhalation	local	0,1 mg/m ³
Consumer DNEL, acute	inhalation	local	4 mg/m ³
Consumer DNEL, long-term	oral	systemic	8 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
13822-56-5	3-(trimethoxysilyl)propylamine	
Freshwater		0.33 mg/l
Marine water		0.033 mg/l
Freshwater sediment		1.2 mg/kg
Marine sediment		0.12 mg/kg
Secondary poisoning		44.4 mg/kg
Micro-organisms in sewage treatment plants (STP)		13 mg/l
Soil		0.045 mg/kg
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane	
Freshwater		0,34 mg/l
Freshwater (intermittent releases)		3,4 mg/l
Marine water		0,034 mg/l
Marine water (intermittent releases)		3,4 mg/l
Freshwater sediment		1,24 mg/kg
Marine sediment		0,124 mg/kg
Micro-organisms in sewage treatment plants (STP)		110 mg/l

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Soil	0,052 mg/kg
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine
Freshwater	0,062 mg/l
Freshwater (intermittent releases)	0,62 mg/l
Marine water	0,006 mg/l
Freshwater sediment	0,22 mg/kg
Marine sediment	0,022 mg/kg
Micro-organisms in sewage treatment plants (STP)	25 mg/l
Soil	0,009 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type A - P2

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus

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must be used.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: Paste
Colour: white
Odour: characteristic

Changes in the physical state

Melting point/freezing point: not determined
Boiling point or initial boiling point and boiling range: 156 °C
Sublimation point: not determined
Softening point: not determined
Pour point: not determined
Flash point: >60 °C

Explosive properties

none

Lower explosion limits: not determined
Upper explosion limits: not determined
Auto-ignition temperature: not determined

Self-ignition temperature

Gas: 235 °C
Decomposition temperature: not determined
pH-Value: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic:
(at 40 °C) >20,5 mm²/s
Flow time: not determined
Water solubility: N/A

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: SECTION 12: Ecological information
Vapour pressure:
(at 20 °C) 0,51 hPa
Vapour pressure:
(at 50 °C) 2,7 hPa
Density (at 20 °C): 1,628 g/cm³
Relative vapour density: not determined

9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion: Not sustaining combustion
Oxidizing properties
none

Other safety characteristics

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Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Evaporation rate:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity
10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid strong alkalis

10.6. Hazardous decomposition products

 Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x)

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in GB CLP Regulation
Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
13822-56-5	3-(trimethoxysilyl)propylamine				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	
	inhalation (4 h) vapour	LC50 16,8 mg/l	Rat	ECHA Dossier	
	inhalation aerosol	ATE 1,5 mg/l			
13463-67-7	titanium dioxide				
	oral	LD50 > 5000 mg/kg	Mouse	Toxicol. Letters 168, 176-185 (2007)	WoE
	inhalation (4 h) aerosol	LC50 [3.43 - 6.82] mg/l	Rat	ECHA Dossier	WoE
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine				

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	oral	LD50 mg/kg	2295	Rat	ECHA Dossier	EPA OPPTS 870.1100
	dermal	LD50 mg/kg	> 2000	Rabbit	ECHA Dossier	EPA OPPTS 870.1200
	inhalation (4 h) vapour	LC50 mg/l	[1,49 - 2,44]	Rat	ECHA dossier	
	inhalation aerosol	ATE	1,5 mg/l			

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (trimethoxyvinylsilane; trimethoxy(vinyl)silane; N-(3-(trimethoxysilyl)propyl)ethylenediamine)

The product is: no danger of sensitization.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

trimethoxyvinylsilane; trimethoxy(vinyl)silane:

In vitro mutagenicity/genotoxicity: Method: OECD 476. Result / evaluation: negative. In vivo mutagenicity/genotoxicity: Method: OECD Guideline 489 (In vivo Mammalian Alkaline Comet Assay). Result / evaluation: negative.; Reproductive toxicity: Method: OECD 422. Species: Rat. Result / evaluation: NOAEL = 250 mg/kg bw/day female.; Developmental toxicity/teratogenicity: Method: EPA OTS 798.4350 (Inhalation Developmental Toxicity Screen) Species: Rat. Result / evaluation: NOAEL = 25 ppm Literature information: ECHA Dossier

3-(trimethoxysilyl)propylamine:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative.; In-vivo mutagenicity: Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative.; Developmental toxicity/teratogenicity Method: EPA OTS 798.4900 (Prenatal Developmental Toxicity Study) Species: Rat. Result / evaluation: NOAEL = 100 mg/kg bw/day Literature information: ECHA Dossier.

titanium dioxide:

In vivo mutagenicity/genotoxicity:

No experimental indications of in vivo mutagenicity exist.

Literature information: ECHA Dossier

Reproductive toxicity:

Method: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)

Species: Rat

Result: NOAEL(P0, P1) >= 1000 mg/kg; NOAEL(F1, F1) >= 1000 mg/kg

Literature information: ECHA Dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat

Results: NOAEL >= 1000 mg/kg (fetus)

Results: NOAEL >= 1000 mg/kg (Maternal toxicity)

Literature information: ECHA Dossier

Carcinogenicity:

Result / evaluation: negative.

Literature information: ECHA Dossier

STOT-single exposure

Based on available data, the classification criteria are not met.

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STOT-repeated exposure

Based on available data, the classification criteria are not met.

trimethoxyvinylsilane; trimethoxy(vinyl)silane:

Subacute oral toxicity: Method: OECD 422. Species: Rat. Result / evaluation: NOAEL = 62,5 mg/kg bw/day;

Subchronic inhalation toxicity: Species: Rat. Result / evaluation: NOAEC 100 ppm. Literature information:

ECHA Dossier

3-(trimethoxysilyl)propylamine:

Subchronic oral toxicity: Method: OECD 408 Species: Rat. Result / evaluation: NOAEL = 200 mg/kg bw/day;

 Subacute inhalation toxicity: Method: OECD 412. Species: Rat. Result / evaluation: 147 mg/m³ Air. Literature information: ECHA Dossier

titanium dioxide:

Subchronic inhalative toxicity:

Method: WoE

Exposure duration: 28d

Species: Rat

 Results: NOAEC >= 5.4 mg/m³

Literature information: Inhalation of high concentrations of low toxicity dusts in rats results in impaired pulmonary clearance mechanisms and persistent inflammation, Warheit, D.B. et al., 1997, Toxicology and Applied Pharmacology 145: 10 - 22.

Subchronic oral toxicity:

Method: WoE (OECD 408)

Species: Rat

Exposure duration: 90d

Result: NOAEL >= 1000 mg/kg

Literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards
Endocrine disrupting properties

No data available.

SECTION 12: Ecological information
12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
13822-56-5	3-(trimethoxysilyl)propylamine					
	Acute fish toxicity	LC50 > 934 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 331 mg/l	48 h	Daphnia magna	ECHA Dossier	
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane					
	Acute fish toxicity	LC50 191 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50 210 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	

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	Acute crustacea toxicity	EC50 mg/l	168,7	48 h	Daphnia magna	ECHA Dossier	
13463-67-7	titanium dioxide						
	Acute fish toxicity	LC50 294 mg/l	155 -	96 h	Fish	ECHA Dossier	WoE
	Acute algae toxicity	ErC50	100 mg/l	72 h	Algae	ECHA Dossier	WoE
	Acute crustacea toxicity	EC50 33.6 mg/l	19.3 -	48 h	Daphnia magna	ECHA Dossier	WoE
	Fish toxicity	NOEC mg/l	>= 80	6 d		ECHA Dossier	WoE
	Algae toxicity	NOEC mg/l	>= 1	32 d	Synedra ulna, Scenedesmus quadricauda, Stigeocloni	Environ. Tox. Chem. 31, 2414-2422 (2012)	WoE
	Crustacea toxicity	NOEC mg/l	1 - 10	21 d	Daphnia magna	ECHA Dossier	WoE
	Acute bacteria toxicity		(> 1000 mg/l)	3 h	activated sludge, domestic	ECHA Dossier	WoE
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine						
	Acute fish toxicity	LC50	597 mg/l	96 h	Danio rerio	ECHA Dossier	EU Method C.1
	Acute algae toxicity	ErC50	8,8 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	81 mg/l	48 h	Daphnia magna	ECHA Dossier	EU Method C.2
	Crustacea toxicity	NOEC	>1 mg/l	21 d	Daphnia magna	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
13822-56-5	3-(trimethoxysilyl)propylamine				
	OECD 301D/ EEC 92/69/V, C.4-E		80,2	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)				
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane				
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D		51%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine				
	EU Method C.4-A		39	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).				

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane	-2
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	-4

BCF

CAS No	Chemical name	BCF	Species	Source
13463-67-7	titanium dioxide	333	Lumbriculus variegatus	REACH Registration D

12.4. Mobility in soil

No data available.

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12.5. Results of PBT and vPvB assessment

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH: N-(3-(trimethoxysilyl)propyl)ethylenediamine.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

- | | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

- | | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

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Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Refer to section 6-8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC):	1 %
2004/42/EC (VOC):	16,21 g/l
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to UK-REACH Regulation

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

UK REACH Appendix XVII, No (mixture): 3

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

- Rev. 1,0 Initial release 03.06.2014
- Rev. 2,0; 28.05.2018, Changes in chapter: 1-16.
- Rev. 3,0 29.12.2021 Changes in chapter: 1,2,3,6,7,8,9,11,12,15,16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AGW: Arbeitsplatzgrenzwert

CAS: Chemical Abstracts Service

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CLP: Classification, Labelling and Packaging of substances and mixtures
 DNEL: Derived No Effect Level
 d: day(s)
 EINECS: European INventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
 ECHA: European Chemicals Agency
 EWC: European Waste Catalogue
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 h: hour
 LOAEL: Lowest observed adverse effect level
 LOAEC: Lowest observed adverse effect concentration
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NOAEL: No observed adverse effect level
 NOAEC: No observed adverse effect concentration
 NLP: No-Longer Polymers
 N/A: not applicable
 OECD: Organisation for Economic Co-operation and Development
 PNEC: predicted no effect concentration
 PBT: Persistent bioaccumulative toxic
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 REACH: Registration, Evaluation, Authorisation of Chemicals
 SVHC: substance of very high concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:
 Health hazards: Calculation method.
 Environmental hazards: Calculation method.
 Physical hazards: On basis of test data and / or calculated and / or estimated.

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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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)