



According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- I.I Product Identifier : SILOXALMNBR, SILOXALMNANT & SILOXALMNBLK Product form : Mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant uses: Sealant

Main use category: Professional use Uses advised against: No additional information available

1.3 Details of the supplier of the safety data sheet

Siloxa Building Chemicals The Office Three Pillars Business Park Sutton-in-the-Isle Cambridgeshire CB6 2RU

1.3 Emergency telephone number: 07970287971

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Carcinogenicity, Category IB H350 Warning! Hazardous respirable droplets may be formed when sprayed. EUH211 Do not breathe spray or mist. Contains 3-(2-aminoethylamino)propyltrimethoxysilane, 3-EUH208 aminopropyltriethoxysilane, N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine, 2-butanone oxime, Methyl-tris(methylethylketoximo)silane. May produce an allergic reaction. Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects No additional information available

2.2 Label Elements

Hazard pictograms (CLP)



GHS08 : Danger

CLP Signal word

Contains Hazard statements (CLP) Precautionary statements (CLP)	 : 2-butanone oxime : H350 - May cause cancer. : P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe vapours. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection, Face protection. P284 - Wear respiratory protection. P308+P313 - IF exposed or concerned: Get medical advice/attention.
EUH-statements Extra phrases	 : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. EUH208 - Contains 3-(2-aminoethylamino)propyltrimethoxysilane, 3- aminopropyltriethoxysilane, N-(2-aminoethyl)-N'-[3- (trimethoxysilyl)propyl]ethylenediamine, 2-butanone oxime, Methyl- tris(methylethylketoximo)silane. May produce an allergic reaction. : Restricted to professional users.

2.3 Other Hazards

Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

Component		
Methyl- tris(methylethylketoximo)silane (22984-54-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
trimethoxyvinylsilane (2768-02-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
methanol (67-56-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not Applicable

Mixtures Name	Product identifier	%	Classification according to Regulation (EC) No. I 272/2008 [CLP]
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC-No.: 919-029-3 REACH-no: 01- 2119457735-29	≥ 5 – < 10	Asp. Tox. I, H304
Methyl- tris(methylethylketoximo)silane	CAS-No.: 22984-54-9 EC-No.: 245-366-4 REACH-no: 01- 2119987100-43	< 2,5	Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373
Titanium dioxide (Note W)(Note 10	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006- 00-2 REACH-no: 01- 2119489379-17	< 2,5	Carc. 2, H351
2-butanone oxime	CAS-No.: 96-29-7 EC-No.: 202-496-6 EC Index-No.: 616-014- 00-0 REACH-no: 01- 2119539477-28	≥ 0,1 – < 2,5	Carc. 1B, H350 Acute Tox. 4 (Dermal) H312 (ATE=1100 mg/k bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) STOT SE 3, H336 STO SE 1, H370 STOT RE 2 H373 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sen 1, H317
3-(2- aminoethylamino)propyltrimethoxysi ane	CAS-No.: 1760-24-3 IEC-No.: 217-164-6 REACH-no: 01- 2119970215-39	≥ 0,5 – < 1	Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT 5 3, H335
3-aminopropyltriethoxysilane	CAS-No.: 919-30-2 EC-No.: 213-048-4 EC Index-No.: 612-108- 00-0 REACH-no: 01- 2119480479-24	≥ 0,1 – < 0,5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Ey Dam. 1, H318 Skin Sen 1B, H317
Name	Product identifier	%	Classification according to Regulation (EC) No. I 272/2008 [CLP]
trimethoxyvinylsilane	CAS-No.: 2768-02-7 EC-No.: 220-449-8 EC Index-No.: 014-049- 00-0 REACH-no: 01- 2119513215-52	≥ 0,1 – < 0,5	Flam. Liq. 3, H226 Acu Tox. 4 (Inhalation:vapour), H332 (ATE=16,8 mg/l/4h) Skin Sens. 1B, H317

3.2

methanol	CAS-No.: 67-56-1 <	0,1	Flam. Liq. 2, H225
substance with a Community	EC-No.: 200-659-6		Acute Tox. 3 (Oral),
workplace exposure limit	EC Index-No.: 603-001-		H301 (ATE=100 mg/kg
	00-X		bodyweight)
	REACH-no: 01-		Acute Tox. 3 (Dermal),
	2119433307-44		H311 (ATE=300 mg/kg
			bodyweight)
			Acute Tox. 3
			(Inhalation), H331
			(ATE=0,5 mg/l/4h) STOT
			SE I, H370

Specific Concentration Limits

Name	Product Identifier	Specific Concentration Limits
Methyl-tris(methylethylketoximo)silane	CAS-No.: 22984-54-9	(3,755 ≤C < 100) Skin Sens. 1, H317
	EC-No.: 245-366-4	
	REACH-no: 01-	
	2119987100-43	
3-(2-	CAS-No.: 1760-24-3	(2,5 ≤C < 100) Eye Irrit. 2, H319
aminoethylamino)propyltrimethoxysilane	EC-No.: 217-164-6	(2,5 ≤C < 100) Skin Sens. 1, H317
	REACH-no: 01-	
	2119970215-39	
Methanol	CAS-No.: 67-56-1	(3 ≤C < 10) STOT SE 2, H371
	EC-No.: 200-659-6	(10 ≤C < 100) STOT SE 1, H370
	EC Index-No.: 603-001-	
	00-X	
	REACH-no: 01-	
	2119433307-44	

Note 10 : The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

Note W : It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Move to fresh air. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with mild soap and water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: If eye irritation persists: Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical

attention.

4.2 Most Important symptoms and effects, both acute and delayed

Symptoms/effects	: May cause cancer. May cause damage to organs.
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under Anticipated conditions of normal use. May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under Anticipated conditions of normal use. Causes serious eye irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under Anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: All extinguishing media allowed. Use extinguishing media appropriate for
surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.Unsuitable extinguishing media: None known. Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

5.3 Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire. Evacuate unnecessary
Firefighting instructions	personnel. : Cool down the containers exposed to heat with a water spray. Use water
	spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: 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**

General measures	: Ensure adequate air ventilation. Spills of this product present a serious slipping hazard.
For non-emergency person	nel
Protective equipment	: Concerning personal protective equipment to use, see section 8.

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip rescue crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray. **Emergency procedures** : Ventilate area.

6.2 **Environmental precautions**

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up 6.3

For containment	: Collect spillage.
Methods for cleaning up	: Take up mechanically (sweeping, shovelling) and collect in suitable container
	for disposal. Soak up spills with inert solids, such as clay or diatomaceous earth
	as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections 6.4

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

See Section 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.I **Precautions for safe handling**

Precautions for safe handling	: Do not eat and do not drink during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Handling temperature Hygiene measures	: 5 – 40 °C :Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated
	clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	: Store tightly closed in a dry and cool place. Keep only in the original container In a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
	o o
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage temperature	: 5 – 25 °C

7.3 **Specific end use(s)**

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

methanol (67-56-1)	
EU - Indicative Occupational Exposu	re Limit (IOEL)
Local name	Methanol
IOEL TWA	260 mg/m ³
IOEL TWA [ppm]	200 ррт
Remark	Skin
	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Ireland - Occupational Exposure	Limits
OEL STEL	260 mg/m ³
OEL STEL [ppm]	200 ррт
United Kingdom - Occupational	Exposure Limits
WEL TWA (OEL TWA) [1]	266 mg/m ³
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	333 mg/m ³
WEL STEL (OEL STEL) [ppm]	250 ppm
Titanium dioxide (13463-67-7)	
Ireland - Occupational Exposure	Limits
OEL STEL	10 mg/m³ inhalable dust 4 mg/m³ respirable dust
United Kingdom - Occupational	Exposure Limits
WEL TWA (OEL TWA) [I]	10 mg/m³ inhalable dust 4 mg/m³ respirable dust

8.1.2 Recommended monitoring procedures

No additional information available

8.1.3 Air contaminants formed

No additional information available

8.1.4 DNEL and PNEC

No additional information available

8.1.5 Control banding

No additional information available

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Eyewash bottle with clean water.

8.2.2. Personal protection equipment

Personal protective equipment

: Avoid all unnecessary exposure.

Wash hands, forearms and face thoroughly after handling. Insufficient ventilation: wear respiratory protection.

Personal protective equipment symbol(s) :



8.2.2.1 Eye and face protection

Eye protection	: Chemical goggl	es or safety glasses	
Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses		With side shields	EN 166

8.2.2.2. Skin protection

Skin aı	nd body	protection
Hand	protecti	on

- : Protective clothing
- : Wear protective gloves. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

: Ensure there is adequate ventilation. Where exposure through

inhalation may occur from use, respiratory protection

Hand Protect	ion				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable	Nitrile rubber (NBR)	3 (> 60 minutes)	> 0,3		EN ISO 374
gloves					

8.2.2.3. Respiratory protection

Respiratory protection

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls Consumer exposure controls Other information

: Do not allow to enter drains or water courses.

: Do not eat, drink or smoke during work.

equipment is recommended

: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke during use. Use only in well ventilated areas. Do not inhale vapour.

9.1	Information on basic physical and chemica	al properties
	Physical state	: Liquid
	Appearance	: Pasty.
	Colour	: Grey. white. Black.
	Odour	: characteristic.
	Odour threshold	: No data available
	рН	: No data available
	Relative evaporation rate (butylacetate=1)	: No data available
	Melting point	: No data available
	Freezing point	: No data available
	Softening point	: Does not apply
	Boiling point	: No data available
	Flash point	: > 100 °C (ISO 3679)
	Auto-ignition temperature	: > 200 °C (calculated value)
	Decomposition temperature	: No data available
	Flammability (solid, gas)	: Non-flammable.
	Vapour pressure	: No data available
	Relative vapour density at 20°C	: No data available
	Relative density	: 1,4
	Density	: I,4 g/ml
	Solubility	: Water: Insoluble
	Partition coefficient n-octanol/water (Log Pow)	: Not applicable for preparations
	Viscosity, kinematic	: 4464,286 mm²/s
	Viscosity, dynamic	: 6250 mPa.s (Brookfield spindle 96, 1 rpm)
	Explosive properties	: Product is not explosive.
	Oxidising properties	: Non oxidizing material according to EC criteria.
	Explosive limits	: No data available
	•	: Not applicable.
	•• •	: Not applicable
		: Thixotropic behaviour
	Partition coefficient n-octanol/water (Log Kow)	
	Vapour pressure	: Not applicable.
		: Not applicable.
	Particle characteristics	: Not applicable

methanol	
Boiling point	64,7 °C Atm. press.: 1013 hPa
Flash point	9,7 °C Atm. press.: 1013 hPa
Auto-ignition temperature	455 °C
Vapour pressure	169,27 hPa Temp.: 25 °C
3-(2-aminoethylamino)prop	yltrimethoxysilane
Boiling point	140 °C
Flash point	98 °C Atm. press.: 101,3 kPa
Vapour pressure	0,4 Pa at 20°C

3-aminopropyltriethoxysilane	
Vapour pressure	1,7 – 2 Pa

2-butanone oxime	
Boiling point	> 152 °C Atm. press.: 113 atm Decomposition: 'no'
Flash point	≈ 61,97 °C Remarks on result: 'other:'
Auto-ignition temperature	314 – 317 °C
Vapour pressure	≈ 1,07 kPa Temp.: 20 °C
Titanium dioxide	
Boiling point	3000 (2500 – 3000) °C
Hydrocarbons, CI6-C20, n-a	alkanes, isoalkanes, cyclics, <2% aromatics
Boiling point	260 – 340 °C
Flash point	125 – 137 °C
Auto-ignition temperature	200 – 223 °C
Vapour pressure	l hPa(a)
Methyl-tris(methylethylketo	oximo)silane
Boiling point	Decomposes before boiling
Flash point	106,7 °C Atm. press.: 101,3 kPa
Auto-ignition temperature	310 °C
Vapour pressure	0,085 Pa Temp.: 25 °C
trimethoxyvinylsilane	
Boiling point	123 °C
Flash point	24,5 °C
Vapour pressure	II,9 hPa

9.2 Information with regard to physical hazard classes No additional information available

9.3 Other information

VOC content

: < 100 g/l

SECTION 10: STABILITY and RELIALIBITY

- **10.1 Reactivity** None under normal use.
- **10.2** Chemical stability Stable at ambient temperature and under normal conditions of use. Not established.
- **10.3 Possibility of hazardous reactions** None under normal use. Not established.
- 10.4 Conditions to avoid None under normal use. Direct sunlight. Extremely high or low temperatures.
- **10.5** Incompatible materials Strong acids. Strong bases.

10.6 Hazardous decomposition products

Additional hazards when processed. release of (highly) toxic gases/vapours. Methanol. 2 Butanon-oxim . fume. Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information	on to>	cicological	effects
------	-------------	--------	--------------------	---------

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

methanol (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg bodyweight Animal: rat
LD50 oral	1187 – 2769 mg/kg
LD50 dermal rat	300 mg/kg
LD50 dermal rabbit	15800 – 17100 mg/kg
LC50 Inhalation - Rat	128,2 mg/l/4h
LC50 Inhalation - Rat [ppm]	64000 ppm/4h
LC50 Inhalation - Rat (Vapours)	128,2 mg/l/4h
3-(2-aminoethylamino)propyltri	methoxysilane (1760-24-3)
LD50 oral rat	2295 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	1,49 – 2,44 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 1,49 mg/l/4h
3-aminopropyltriethoxysilane (9	19-30-2)
LD50 oral rat	2,83 ml/kg male
LC50 Inhalation - Rat [ppm]	> 5 ppm male
2-butanone oxime (96-29-7)	
LD50 oral rat	3680 mg/kg
LD50 dermal rat	920 mg/kg
2-butanone oxime (96-29-7)	
LD50 dermal rabbit	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 4,83 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	> 4,8 mg/l/4h
Titanium dioxide (13463-67-7)	

LD50 oral rat	 > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rat	> 10000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 Inhalation - Rat	> 6,82 mg/l
LC50 Inhalation - Rat (Dust/Mist)	> 6,82 mg/l/4h
, ,	anes, isoalkanes, cyclics, <2% aromatics
LD50 oral rat	5000 mg/kg
LC50 Inhalation - Rat	5266 – 5991 mg/l
Methyl-tris(methylethylketoxi	5
LD50 oral rat	2463 mg/kg (OECD 401 method)
LD50 dermal rat	 > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
trimethoxyvinylsilane (2768-0	2-7)
LD50 oral rat	7236 mg/kg
LD50 dermal rabbit	3880 mg/kg
LC50 Inhalation - Rat [ppm]	2773 ppm/4h
LC50 Inhalation - Rat [ppm] LC50 Inhalation - Rat (Vapours)	2773 ppm/4h 16,8 mg/l/4h
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation	I 6,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information	I 6,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH Serious eye damage/irritation	I 6,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH	I 6,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH Serious eye damage/irritation	I 6,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH Serious eye damage/irritation Titanium dioxide (1346 pH Respiratory or skin sensitisation Additional information Germ cell mutagenicity Additional information	16,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified 3-67-7) 7 : Not classified
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH Serious eye damage/irritation Titanium dioxide (1346)	16,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified 3-67-7) 7 : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : May cause cancer.
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH Serious eye damage/irritation Titanium dioxide (1346 pH Respiratory or skin sensitisation Additional information Germ cell mutagenicity Additional information Carcinogenicity	I6,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified 3-67-7) 7 : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : May cause cancer. (919-30-2)
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH Serious eye damage/irritation Titanium dioxide (1346 pH Respiratory or skin sensitisation Additional information Germ cell mutagenicity Additional information Carcinogenicity 3-aminopropyltriethoxysilane (NOAEL (chronic, oral, animal/male	16,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified 3-67-7) 7 : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : May cause cancer.
LC50 Inhalation - Rat (Vapours) Skin corrosion/irritation Additional information Titanium dioxide (13463-67-7) pH Serious eye damage/irritation Titanium dioxide (1346 pH Respiratory or skin sensitisation Additional information Germ cell mutagenicity Additional information Carcinogenicity B-aminopropyltriethoxysilane (NOAEL (chronic, oral, animal/male years) Reproductive toxicity	I6,8 mg/l/4h : Not classified : Based on available data, the classification criteria are not met 7 : Not classified 3-67-7) 7 : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met : May cause cancer. (919-30-2) , 2 > 43,8 mg/kg bodyweight : Not classified

NOAEL (animal/male, F0/P)	≥ 250 mg/kg (OECD 422 method)
NOAEL (animal/female, F0/P)	≥ 250 mg/kg (OECD 422 method)

STOT-single exposure

: Not classified

STOT-single exposure	May cause respiratory irritation.
2-butanone oxime (96-29-7)	
•	May cause drowsiness or dizziness. Causes damage to organs (upper respiratory tract).
STOT-repeated exposure Additional information	: Not classified : Based on available data, the classification criteria are not m
3-(2-aminoethylamino)propyltrii	methoxysilane (1760-24-3)
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 1545 mg/kg bodyweight Animal: rat
3-aminopropyltriethoxysilane (9	
LOAEL (oral, rat, 90 days)	600 mg/kg bodyweight/day
NOAEL (subchronic, oral, animal/male, 90 days)	200 mg/kg bodyweight
2-butanone oxime (96-29-7)	
LOAEL (oral, rat, 90 days)	40 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEC (inhalation, rat, vapour, 90 days)	0,09 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
NOAEL (subchronic, oral, animal/male, 90 days)	110 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs (blood) through prolonged or repeated exposure.
Methyl-tris(methylethylketoxime	o)silane (22984-54-9)
LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (oral, rat, 90 days)	10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (subacute, oral, animal/male, 28 days)	10 mg/kg bodyweight (OECD 422 method)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

trimethoxyvinylsilane (2768-02-7)

NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day
----------------------------	--------------------------

Aspiration hazard Additional information : Not classified

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

Parasilico Standard LMN		
Viscosity, kinematic	4464,286 mm²/s	
3-(2-aminoethylamino)pr	ropyltrimethoxysilane (1760-24-3)	
Viscosity, kinematic	5,825 mm²/s	
Hydrocarbons, CI6-C20,	n-alkanes, isoalkanes, cyclics, <2% aromatics	
Viscosity, kinematic	6,4 – 7,96 mm²/s	
Methyl-tris(methylethylk	etoximo)silane (22984-54-9)	
/iscosity, kinematic 8,99 mm²/s Temp.: 'other:77.0°F' Parameter: 'cStcSt'		
trimethoxyvinylsilane (27	768-02-7)	
Viscosity, kinematic	1,031 mm²/s	
Information on other haz	ards	

11.2 Information on other hazards **11.2.1.** Endocrine disrupting properties

II.2.2. Other information

Potential adverse human health effects and symptoms

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous to the aquatic environment, short–term (acute)	: Not classified
Hazardous to the aquatic environment, long– term (chronic)	: Not classified

methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [I]	18260 mg/l (OECD 202 method)
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	22000 mg/l Pseudokirchneriella subcapitata
ErC50 algae	16912 mg/l ulva pertusa
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	7900 mg/l Oryzias latipes

LC50 - Fish [1]	597 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	81 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	I 26 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

EC50 72h - Algae [2]	352 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
ErC50 algae	8,8 mg/l (OECD 201 method)		
NOEC (chronic)	> I mg/l		
NOEC chronic algae	3,1 mg/l (OECD 201 method)		
3-aminopropyltriethoxysilane	(919-30-2)		
LC50 - Fish [1]	> 100 mg/l Brachydanio rerio (zebra-fish)		
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna (Big water flea)		
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata		
NOEC chronic algae	72h 1,3 mg/l Desmodesmus subspicatus.		
Hydrocarbons, CI6-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics			
LC50 - Fish [1]	1028 – 87556 g/l		
EC50 - Crustacea [1]	I – 3193 g/l		
EC50 72h - Algae [1]	I – 10 mg/l		
NOEC chronic fish	l g/l		
NOEC chronic crustacea	5 mg/l		
2-butanone oxime (96-29-7)	2-butanone oxime (96-29-7)		
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes		
EC50 - Crustacea [1]	≈ 201 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	≈ 11,8 mg/l Test organisms (species): Scenedesmus capricornutum		
EC50 72h - Algae [2]	≈ 6,09 mg/l Test organisms (species): Scenedesmus capricornutum		
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
Methyl-tris(methylethylketoxi	Methyl-tris(methylethylketoximo)silane (22984-54-9)		
LC50 - Fish [1]	> 120 mg/l Oncorhynchus mykiss (Rainbow trout)		
LC50 - Fish [2]	972,34 mg/l (OECD 203 method)		
EC50 - Crustacea [1]	> 120 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	94 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)		

Methyl-tris(methylethylketoximo)silane (22984-54-9)	
EC50 72h - Algae [2]	50 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	72h 94 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (acute)	57,67 mg/l (OECD 204 method)
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
Titanium dioxide (13463-	-67-7)
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka
LC50 - Fish [2]	> 10000 mg/l

EC50 - Crustacea [1]	19,3 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	27,8 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1000 mg/l
EC50 - Other aquatic organisms [2]	61 mg/l
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 100 mg/l pseudokirchneriella subcapitata
NOEC (chronic)	≥ 2,92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic algae	5600 mg/l

12.2 Persistence and degradability

Parasilico Standard LMN		
Persistence and degradability	Not established.	
nethanol (67-56-1)		
Persistence and degradability	Readily biodegradable.	
3-(2-aminoethylamino)propyltrir	nethoxysilane (1760-24-3)	
Biodegradation	39 % (OECD 301A method)	
3-aminopropyltriethoxysilane (919-30-2)		
Persistence and degradability	Not readily biodegradable. Hydrolysis in water.	
Biodegradation	28d 67 % (OECD 301A method)	
Titanium dioxide (13463-67-7)		
Persistence and degradability	Not readily biodegradable.	
Methyl-tris(methylethylketoximo)silane (22984-54-9)		
Biodegradation	28d 0 % (OECD 301A method)	
trimethoxyvinylsilane (2768-02-7)		
Biodegradation	51 %	

12.3. Bioaccumulative potential

Parasilico Standard LMN	
Partition coefficient n-octanol/water (Log Pow)	Not applicable for preparations
Partition coefficient n-octanol/water (Log Kow)	Not applicable for preparations
Bioaccumulative potential	Not established.
methanol (67-56-1)	
Bioconcentration factor (BCF REACH)	< 10
Partition coefficient n-octanol/water	-0,77

(Log Pow)		
Bioaccumulative potential	Low bioaccumulation potential.	
3-aminopropyltriethoxysilane (919-30-2)		
Bioconcentration factor (BCF REACH)	3,4 Cyprinus carpio (Common Carp)	
Bioaccumulative potential	not bioaccumulative.	
2-butanone oxime (96-29-7)		
Bioconcentration factor (BCF REACH)	0,65	
Partition coefficient n-octanol/water (Log Pow)	0,63	
Titanium dioxide (13463-67-7)		
BCF - Fish [1]	352	
Methyl-tris(methylethylketoximo)silane (22984-54-9)		
Partition coefficient n-octanol/water (Log Pow)	9,83	

I2.4 Mobility in soil

2-butanone oxime (96-29-7)		
Surface tension 30,29 mN/m at 16°C		
Methyl-tris(methylethylketoximo)silane (22984-54-9)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5,481 EPA (Environmental Protection Agency)	

12.5 Results of PBT and vPvB assessment

No additional information available

- **12.6 Endocrine disrupting properties**
- No additional information available
- 12.7 Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations. Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials: Avoid release to the environment.

European List of Waste (LoW) code: 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances Siloxa Building Chemicals, The Office, Three Pillars Business Park, Station Road, Sutton-in-the-Isle, Cambridgeshire CB6 2RU siloxa.co.uk Page | 17

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID
I4.I. UN nun	nber			I
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN pro	per shipping name	e		L
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transpo	ort hazard class(es	5)		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing	group			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environ	mental hazards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplement	ary information avai	lable	I	I

14.1 Special precautions for user

Overland transport Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport Not applicable

–

Rail transport

Not applicable

14.2 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: REGULATORY INFORMATION

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

I5.I.I EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference	Applicable on	Entry title or description	
code			
28.	2-butanone oxime	Substances which are classified as carcinogen category IA or IB in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix I or Appendix 2, respectively.	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants) **Ozone Regulation (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : < 100 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out For the following substances of this mixture a chemical safety assessment has been carried out: methanol

SECTION 16: OTHER INFORMATION

Indication of changes:

Regulatory information.

Abbreviations and acronyms:		
CAS-No.	Chemical Abstract Service number	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BOD	Biochemical oxygen demand (BOD)	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	

COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EN	European Standard	
EC-No.	European Community number	
IMDG	International Maritime Dangerous Goods	
ΙΑΤΑ	International Air Transport Association	
IOELV	Indicative Occupational Exposure Limit Value	
Abbreviati	ons and acronyms:	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
sds	Safety Data Sheet	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources: ECHA (European Chemicals Agency). Supplier's safety documents. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging. Other information: None.

Full text of H	Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		

Acute Tox.	Acute toxicity (inhalation:vapour) Category 4		
4 (Inholotion)			
(Inhalation: vapour)			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Asp. Tox. I	Aspiration hazard, Category I		
Carc. IB	Carcinogenicity, Category IB		
Carc. 2	Carcinogenicity, Category 2		
EUH208	Contains 3-(2-aminoethylamino)propyltrimethoxysilane, 3-aminopropyltriethoxysilane, 2- butanone oxime, Methyl-tris(methylethylketoximo)silane, trimethoxyvinylsilane. May produce an allergic reaction.		
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.		
Eye Dam. I	Serious eye damage/eye irritation, Category I		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H311	Toxic in contact with skin.		
H312	Harmful in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H331	Toxic if inhaled.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H350	May cause cancer.		
H351	Suspected of causing cancer.		
H370	Causes damage to organs.		
H371	May cause damage to organs.		
H373	May cause damage to organs through prolonged or repeated exposure.		
Full text of H	I- and EUH-statements:		

Skin Corr. IB	Skin corrosion/irritation, Category I, Sub-Category IB	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. I	Skin sensitisation, Category I	
Skin Sens. I B	Skin sensitisation, category IB	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE I	Specific target organ toxicity – single exposure, Category I	
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Carc. IB	H350	Calculation method
EUH211	EUH211	On basis of test data
EUH208	EUH208	Calculation method

Note: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.