SILOXA© EVE

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SAFETY DATA SHEET

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

1.1 Product identifier:

Product form : Mixture

Trade name : Siloxa EVE

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

Relevant identified uses

Main use category : Professional use

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

1.4 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 1B	H350
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412
Contains 3-(2-aminoethylamino)propyltrimethoxysilane, Fungicide 2-octyl-2H-isothiazol-3-one, 3- aminopropyltriethoxysilane, Methyltris(methylethylketoximo)silane, 2-butanone oxime, N-(2- aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine.	EUH208

May produce an allergic reaction. EUH208

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

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

Hazard pictograms (CLP) :

GHS08

CLP Signal word : Danger

Contains : 2-butanone oxime

Hazard statements (CLP) : May cause cancer.
Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : Do not handle until all safety precautions have been read and understood.
Do not breathe vapours.
Avoid release to the environment.
Wear protective gloves, protective clothing, eye protection, face protection.
Wear respiratory protection.

EUH-statements : EUH208 – Contains 3-(2-aminoethylamino) propyltrimethoxysilane, Fungicide 2-octyl-2Hisothiazol-3-one, 3-aminopropyltriethoxysilane, Methyl-tris (methylethylketoximo)silane, 2- butanone oxime, N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl] ethylenediamine.
May produce an allergic reaction.

Extra phrases : Restricted to professional users.

2.3 Other hazards

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

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII.

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	methanol (67-56-1)(1), Methyl-tris(methylethylketoximo)silane (22984-54-9), N-(2- aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	methanol (67-56-1)(1), Methyl-tris(methylethylketoximo)silane (22984-54-9), N-(2- aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

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 substance(s) are 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 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC-No.: 919-029-3 REACH-no: 01-2119457735-29	≥ 10 – < 25	Asp. Tox. 1, H304
Methyl-tris(methylethylketoximo)silane	CAS-No.: 22984-54-9 EC-No.: 245-366-4 REACH-no: 01-2119987100-43	< 5	Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373
2-Pentanone, O,O',O''-(methylsilylidyne)trioxime	CAS-No.: 37859-55-5 EC Index-No.: 484-460-1 REACH-no: 01-2120004323-76	< 2.5	Acute Tox. 4 (Oral), H302 (ATE=1133 mg/kg bodyweight) Eye Irrit. 2, H319 STOT RE 2, H373

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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 – < 1	Carc. 1B, H350 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) STOT SE 3, H336 STOT SE 1, H370 STOT RE 2, H373 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
3-aminopropyltriethoxysilane	CAS-No.: 919-30-2 EC-No.: 213-048-4 EC Index-No.: 612-108-00-0 REACH-no: 01-2119480479-24	≥ 0.5 – < 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317
3-(2-aminoethylamino)propyltrimethoxysilane	CAS-No.: 1760-24-3 EC-No.: 217-164-6 REACH-no: 01-2119970215-39	≥ 0.1 – < 0.5	Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine	CAS-No.: 35141-30-1 EC-No.: 252-390-9 REACH-no: 01-2120770264-55	≥ 0.1 – < 0.5	Acute Tox. 4 (Inhalation), H332 (ATE=1.49 mg/l/4h) Eye Dam. 1, H318 Skin Sens. 1A, H317
methanol substance with a Community workplace exposure limit	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44	< 0.1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) STOT SE 1, H370
Fungicide 2-octyl-2H-isothiazol-3-one	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	< 0.025	Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.27 mg/l) Acute Tox. 3 (Dermal), H311 (ATE=311 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=125 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Methyl-tris(methylethylketoximo)silane	CAS-No.: 22984-54-9 EC-No.: 245-366-4 REACH-no: 01-2119987100-43	(3.755 ≤ C < 100) Skin Sens. 1; H317

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
3-(2-aminoethylamino)propyltrimethoxysilane	CAS-No.: 1760-24-3 EC-No.: 217-164-6 REACH-no: 01-2119970215-39	(2.5 ≤ C < 3) Eye Irrit. 2; H319
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine	CAS-No.: 35141-30-1 EC-No.: 252-390-9 REACH-no: 01-2120770264-55	(2.5 ≤ C < 100) Skin Sens. 1; H317
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44	(3 ≤ C < 10) STOT SE 2; H371 (10 ≤ C < 100) STOT SE 1; H370
Fungicide 2-octyl-2H-isothiazol-3-one	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317

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

SECTION 4: First aid measures

4.1 Description of first aid measures General information

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, consult a specialist. Rinse immediately with water. 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.
Symptoms/effects after inhalation	:	Danger of serious damage to health by prolonged exposure.
Symptoms/effects after skin contact	:	Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	:	Direct contact with the eyes is likely slightly irritating.
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

In all cases of doubt, or when symptoms persist, seek medical advice.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Suitable extinguishing media	:	All extinguishing media allowed. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard	:	Not flammable.

5.3 Advice for firefighters

Precautionary measures fire	:	Do not breathe fumes from fires or vapours from decomposition. Evacuate unnecessary personnel. Exercise caution when fighting any chemical fire.
Firefighting instructions	:	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 firefighting 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 5: Firefighting measures

6.1 Personal precautions, protective equipment and emergency procedures General advice

General measures	:	Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Material spilled on hard surface can present a serious slipping/falling hazard.

For non-emergency personnel

Emergency procedures	:	Evacuate unnecessary personnel.

For emergency responders

Protective equipment	:	Equip rescue crew with proper protection. Equip cleanup crew with proper protection.
Emergency procedures	:	Ventilate area.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up For containment

For containment	:	Collect spillage.
Methods for cleaning up	:	Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Sweep or shovel spills into appropriate 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.

6.4 Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling

Precautions for safe handling	:	Avoid contact with skin, eyes and clothing. 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	:	5 – 40 °C
Hygiene measures	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels

Storage conditions	:	Store in dry, well-ventilated area. 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.
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

National occupational exposure and biological limit values

methanol (67-56-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methanol
IOEL TWA	260 mg/m³
	200 ppm

Remark	Skin
	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	266 mg/m³
	200 ppm
WEL STEL (OEL STEL)	333 mg/m³
	250 ppm

8.2 Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:
Avoid all unnecessary exposure.
Personal protective equipment symbol(s):

Eye and face protection

Eye protection:
Chemical goggles or safety glasses

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety glasses	Droplet	With side shields	EN 166

Skin protection

Skin and body protection:
Protective clothing
Hand protection:
Wear protective gloves. Time of penetration is to be checked with the glove producer. 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

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	> 0,3		EN ISO 374

Respiratory protection

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit

Respiratory protection

Device	Filter type	Condition	Standard
Gas mask	ABEK	If conc. in air > exposure limit, Long term exposure	

Environmental exposure controls

Environmental exposure controls:

Do not allow to enter into surface water or drains.

Consumer exposure controls:

Avoid contact with skin and eyes.

Other information:

Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Transparent. Colourless. Light grey.
Appearance	: Paste.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not applicable
Softening point	: Not applicable
Boiling point	: Not applicable
Flammability	: Non-flammable.
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: 70 °C (ISO 3679)
Auto-ignition temperature	: > 200 °C (calculated value)
Decomposition temperature	: Not available
pH	: insoluble in water
Viscosity, kinematic	: 9380 mm^2/s
Viscosity, dynamic	: 9380 mPa·s (Brookfield Spindle 96, 1 rpm)
Non-Newtonian liquid	: Thixotropic behaviour
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for preparations
Partition coefficient n-octanol/water (Log Pow)	: Not applicable for preparations
Vapour pressure	: Does not apply
Vapour pressure at 50°C	: Not applicable.
Density	: ≈ 1 g/ml
Relative density	: ≈ 1
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

3-(2-aminoethylamino)propyltrimethoxysilane

Boiling point	140 °C
Flash point	120 °C Atm. press.: 1013 hPa
Vapour pressure	0.4 Pa at 20 °C

Fungicide 2-octyl-2H-isothiazol-3-one	
Boiling point	342 °C
Vapour pressure	4.9 hPa 25°C

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime	
Flash point	82 °C
Auto-ignition temperature	285 °C
Vapour pressure	0.0172 hPa at 20 °C

Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Boiling point	260 – 340 °C
Flash point	125 – 137 °C
Auto-ignition temperature	200 – 223 °C
Vapour pressure	1 hPa(a)

3-aminopropyltriethoxysilane	
Vapour pressure	1.7 – 2 Pa

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

Methyl-tris(methylethylketoximo)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
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

N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine	
Boiling point	294 °C Atm. press.: 101,3 kPa

Flash point	96 °C Atm. press.: 1013 hPa
Vapour pressure	0.015 Pa Temp.: 25 °C

9.2 Other information

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions. Not established.

10.3 Possibility of hazardous reactions

None under normal conditions. Not established

10.4 Conditions to avoid

Moisture. Heat. Direct sunlight. Extremely high or low temperatures.

10.5 Incompatible materials

Strong acids. Strong bases.

10.6 Hazardous decomposition products

None under normal conditions. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in GB CLP Regulation Acute toxicity

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Siloxa EVE T	
LD50 oral	rabbit
3-(2-aminoethylamino)propyltrimethoxysilane (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), Remarks on results: other:
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)
2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
LD50 oral rat	1133 – 1234 mg/kg
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	

LD50 oral rat	5000 mg/kg

Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LC50 Inhalation - Rat	5266 – 5991 mg/l
3-aminopropyltriethoxysilane (919-30-2)	
LD50 oral rat	2.83 ml/kg male
LC50 Inhalation - Rat [ppm]	> 5 ppm male
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
Methyl-tris(methylethylketoximo)silane (22984-54-9)	
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)
2-butanone oxime (96-29-7)	
LD50 oral rat	3680 mg/kg
LD50 dermal rat	920 mg/kg
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
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)	
LD50 oral rat	> 2000 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

Skin corrosion/irritation : Not classified
pH: insoluble in water

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

Serious eye damage/irritation : Not classified
pH: insoluble in water

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

Respiratory or skin sensitisation : Not classified

Additional information : Mixture Raw material (OECD 406 method)

Does not cause cutaneous sensitisation for guinea-pigs Conclusion by analogy
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

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

Carcinogenicity : May cause cancer.

3-aminopropyltriethoxysilane (919-30-2)	
NOAEL (chronic, oral, animal/male, 2 years)	> 43.8 mg/kg bodyweight

Reproductive toxicity : Not classified

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

methanol (67-56-1)	
NOAEL (animal/male, F0/P)	< 1000 mg/kg bodyweight Animal: mouse, Animal sex: male

Methyl-tris(methylethylketoximo)silane (22984-54-9)	
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

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

2-butanone oxime (96-29-7)	
STOT-single exposure	May cause drowsiness or dizziness. Causes damage to organs (upper respiratory tract).

STOT-repeated exposure : Not classified

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

3-(2-aminoethylamino)propyltrimethoxysilane (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

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

3-aminopropyltriethoxysilane (919-30-2)	
LOAEL (oral, rat, 90 days)	600 mg/kg bodyweight/day
NOAEL (subchronic, oral, animal/male, 90 days)	200 mg/kg bodyweight

Methyl-tris(methylethylketoximo)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 (subacute, oral, animal/male, 28 days)	10 mg/kg bodyweight (OECD 422 method)
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)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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.
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)	
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)

Aspiration hazard : Not classified

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

Siloxa EVE T	
Viscosity, kinematic	9380 mm²/s
3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
Viscosity, kinematic	3.1 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
Viscosity, kinematic	16.1 mm²/s at 20 °C
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Viscosity, kinematic	6.4 – 7.96 mm²/s
methanol (67-56-1)	
Viscosity, kinematic	0.689 – 0.747 mm²/s
Methyl-tris(methylethylketoximo)silane (22984-54-9)	
Viscosity, kinematic	8.99 mm²/s Temp.: 'other:77.0°F' Parameter: 'cStcSt'
2-butanone oxime (96-29-7)	
Viscosity, kinematic	16237.281 – 16247.834 mm²/s

11.2 Information on other hazards

Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

12.1 Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

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

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects

3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
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]	126 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)
Fungicide 2-octyl-2H-isothiazol-3-one (26530-20-1)	
LC50 - Fish [1]	122 µg/l (OECD 203 method)
EC50 - Crustacea [1]	0.42 mg/l (OECD 202 method)

Fungicide 2-octyl-2H-isothiazol-3-one (26530-20-1)

EC50 72h - Algae [1]	0.084 mg/l (OECD 201 method)
ErC50 algae	(OECD 201 method)
NOEC chronic fish	22 µg/l
NOEC chronic crustacea	0.022 mg/l
NOEC chronic algae	0.004 mg/l
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LC50 - Fish [1]	1028 – 87556 g/l
EC50 - Crustacea [1]	1 – 3193 g/l
EC50 72h - Algae [1]	1 – 10 mg/l
NOEC chronic fish	1 g/l
NOEC chronic crustacea	5 mg/l
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.
methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	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
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)
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'

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'
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)	
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]	352 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	126 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic crustacea	> 1 mg/l (OECD 211 method)

12.2 Persistence and degradability

Siloxa EVE T	
Persistence and degradability	May cause long-term adverse effects in the environment.
3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
Persistence and degradability	Not rapidly degradable
Fungicide 2-octyl-2H-isothiazol-3-one (26530-20-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	3 - 5 days
2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
Persistence and degradability	Rapidly degradable
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Persistence and degradability	Not rapidly degradable
3-aminopropyltriethoxysilane (919-30-2)	
Persistence and degradability	Not readily biodegradable, Hydrolysis in water.
Biodegradation	28d 67 % (OECD 301A method)
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable.
Methyl-tris(methylethylketoximo)silane (22984-54-9)	
Persistence and degradability	Not rapidly degradable
Biodegradation	28d 0 % (OECD 301A method)
2-butanone oxime (96-29-7)	
Persistence and degradability	Rapidly degradable
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)	
Persistence and degradability	Rapidly degradable

12.3 Bioaccumulative potential

Siloxa EVE T	
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.
Fungicide 2-octyl-2H-isothiazol-3-one (26530-20-1)	
Partition coefficient n-octanol/water (Log Kow)	2.92 (OECD 117 method)

Bioaccumulative potential	Low bioaccumulation potential.
2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
Partition coefficient n-octanol/water (Log Pow)	1.25
3-aminopropyltriethoxysilane (919-30-2)	
Bioconcentration factor (BCF REACH)	3.4 Cyprinus carpio (Common Carp)
Bioaccumulative potential	not bioaccumulative.
methanol (67-56-1)	
Bioconcentration factor (BCF REACH)	< 10
Partition coefficient n-octanol/water (Log Pow)	-0.77
Bioaccumulative potential	Low bioaccumulation potential.
Methyl-tris(methylethylketoximo)silane (22984-54-9)	
Partition coefficient n-octanol/water (Log Pow)	9.83
2-butanone oxime (96-29-7)	
Bioconcentration factor (BCF REACH)	0.65
Partition coefficient n-octanol/water (Log Pow)	0.63

12.4 Mobility in soil

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
Surface tension	69.5 mN/m
Methyl-tris(methylethylketoximo)silane (22984-54-9)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.481 EPA (Environmental Protection Agency)
2-butanone oxime (96-29-7)	
Surface tension	30.29 mN/m at 16°C

12.5 Results of PBT and vPvB assessment

Siloxa EVE T
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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	methanol (67-56-1)(1), Methyl-tris(methylethylketoximo)silane (22984-54-9), N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)

Component	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	methanol (67-56-1)(1), Methyl-tris(methylethylketoximo)silane (22984-54-9), N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1)

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

Siloxa EVE T	
Other information	Avoid release to the environment.

13.1 Waste treatment methods Disposal recommendations

SECTION 14: Transport information

Regional waste regulation : Disposal must be done according to official 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.

Ecological waste information : Avoid release to the environment.

European List of Waste (LoW, EC 2000/532) : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
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. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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)

National regulations

Germany

Air Quality Control (TA Luft)					
Category	Class	Applicable on	Local name	Max. mass flow	Max. mass concentration

15.2 Chemical safety assessment

Not applicable

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
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
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
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
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
OECD	Organisation for Economic Co-operation and Development
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	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
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- and EUH-statements:	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
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
H225	Highly 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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

H350	May cause cancer.
H370	Causes damage to organs.

Full text of H- and EUH-statements:	
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains 3-(2-aminoethylamino)propyltrimethoxysilane, Fungicide 2-octyl-2H-isothiazol-3-one, 3- aminopropyltriethoxysilane, Methyl-tris(methylethylketoximo)silane, 2-butanone oxime, N-(2-aminoethyl)-N'-[3- (trimethoxysilyl)propyl]ethylenediamine. May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Carc. 1B	H350	Calculation method
Aquatic Chronic 3	H412	Calculation method
EUH208	EUH208	Calculation method

Changes

This data sheet contains changes from the previous version in section(s): 2.

Relevant H and EUH statements (number and full text)

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.

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.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

EUH208Contains OIT, 3-Aminopropyltriethoxysilane. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Further Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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