



Altro Sanitary Sealant

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 21/7/2023 Version: 8.1

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

1.1. Product identifier

Product form : Mixture
Trade name : Altro Sanitary Sealant A802/A803/A805

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Altro Limited	Altro GmbH
Works Road	Ebertallee 209,
Letchworth Garden City	06846
Hertfordshire SG6 1NW UK	Dessau-Roßlau, Germany
T +44 (0) 1462 480 480 - F +44 (0)1462 480010	T +49 (0) 340 6500-0
sds@altro.com	sds@altro.com

1.4. Emergency telephone number

Emergency number : +44 (0) 1462 480480 (Monday-Friday 09.00-17.00)
: +49 (0) 340 6500-0 (Monday-Friday 09.00-17.00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Contains 3-aminopropyltriethoxysilane, Fungicide 2-octyl-2H-isothiazol-3-one, 3-(2-aminoethylamino)propyltrimethoxysilane. 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]

CLP Signal word	: -
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P273 - Avoid release to the environment. P501 - Dispose of contents and container to a hazardous or special waste collection point.
EUH-statements	: EUH208 - Contains 3-aminopropyltriethoxysilane, Fungicide 2-octyl-2H-isothiazol-3-one, 3-(2-aminoethylamino)propyltrimethoxysilane. May produce an allergic reaction.

2.3. Other hazards

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

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Pentanone, O,O',O''-(methylsilyldiyl)trioxime	CAS-No.: 37859-55-5 EC Index-No.: 484-460-1 REACH-no: 01-2120004323-76	≥ 0,1 – < 5	Acute Tox. 4 (Oral), H302 (ATE=1133 mg/kg bodyweight) Eye Irrit. 2, H319 STOT RE 2, H373
2-Pentanoxim	CAS-No.: 623-40-5 EC-No.: 484-470-6 REACH-no: 01-0000020248-72	≥ 0.1 – < 2.5	Acute Tox. 4 (Oral), H302 (ATE=1133 mg/kg bodyweight) Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 3, H412
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
toluene substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310-51	< 0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
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), 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
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

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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 < 100) Eye Irrit. 2, H319 (2.5 ≤C < 100) Skin Sens. 1, H317
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
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

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	: Allow affected person to breathe 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	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Not expected to present a significant hazard under anticipated conditions of normal use.
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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: All extinguishing media allowed. 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	: Not flammable.
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5.3. Advice for firefighters

Firefighting instructions	: 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	: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Concerning personal protective equipment to use, see item 8.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Disposal must be done according to official regulations. Do not dispose of waste into sewer. 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

- Methods for cleaning up : On land, sweep or shovel into suitable containers. 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

Concerning disposal elimination after cleaning, see section 13. Concerning personal protective equipment to use, see section 8. See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Avoid any direct contact with the product.
Precautions for safe handling : 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.
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.

7.2. Conditions for safe storage, including any incompatibilities

- 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.
Maximum storage period : 12 months
Storage temperature : 5 – 25 °C

7.3. Specific end use(s)

Adhesives, sealants.

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 Exposure Limit (IOEL)

Local name	Methanol
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methanol (67-56-1)	
IOEL TWA	260 mg/m ³
IOEL TWA [ppm]	200 ppm
Remark	Skin Skin
	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC COMMISSION DIRECTIVE 2006/15/EC
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
toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Toluene
IOEL TWA	192 mg/m ³
IOEL STEL	384 mg/m ³
IOEL STEL [ppm]	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	191 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	384 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm

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.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Avoid all unnecessary exposure.

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Personal protective equipment symbol(s):



8.2.2.1. 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

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

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. Wear protective gloves.

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)		> 0,1		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Consumer exposure controls:

Avoid contact with skin and eyes. Wash hands and other exposed areas with soap and water before leaving work.

Other information:

Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. 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
Appearance	: Paste.
Colour	: According to product specification.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.03 g/ml
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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 at ambient temperature and under normal conditions of use. Not established.

10.3. Possibility of hazardous reactions

None under normal conditions. Not established.

10.4. Conditions to avoid

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 toxicological effects

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

2-Pentanoxim (623-40-5)

LD50 oral rat	1133 mg/kg
LC50 Inhalation - Rat [ppm]	295 ppm/4h
ATE CLP (oral)	1133 mg/kg bodyweight
ATE CLP (gases)	295 ppmv/4h

2-Pentanone, O,O',O''-(methylsilyldiyn)trioxime (37859-55-5)

LD50 oral rat	1133 – 1234 mg/kg
ATE CLP (oral)	1133 mg/kg bodyweight

3-aminopropyltriethoxysilane (919-30-2)

LD50 oral rat	2.83 ml/kg male
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3-aminopropyltriethoxysilane (919-30-2)	
LC50 Inhalation - Rat [ppm]	> 5 ppm male
ATE CLP (oral)	500 mg/kg bodyweight
Fungicide 2-octyl-2H-isothiazol-3-one (26530-20-1)	
ATE CLP (oral)	125 mg/kg bodyweight
ATE CLP (dermal)	311 mg/kg bodyweight
ATE CLP (gases)	100 ppmv/4h
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
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
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)
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
toluene (108-88-3)	
LD50 oral rat	5580 mg/kg
LD50 dermal rabbit	> 12400 mg/kg
LC50 Inhalation - Rat	28.1 mg/l/4h (OECD 403 method)
ATE CLP (oral)	5580 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: no danger of sensitization.
Additional information	: (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	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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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
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
2-Pentanoxim (623-40-5)	
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day
NOAEL (dermal, rat/rabbit, 90 days)	1254 mg/kg bodyweight/day
NOAEC (inhalation, rat, gas, 90 days)	298.9 ppmv/6h/day
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
2-Pentanone, O,O',O''-(methylsilyldiylne)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
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
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

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.

2-Pentanoxim (623-40-5)	
LC50 - Fish [1]	≥ 100 mg/l (OECD 203 method)
EC50 - Crustacea [1]	≥ 100 mg/l (OECD 202 method)
EC50 72h - Algae [1]	88 mg/l
NOEC chronic fish	≥ 100 mg/l

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2-Pentanoneoxim (623-40-5)	
NOEC chronic crustacea	≥ 100 mg/l
NOEC chronic algae	32 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.
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)
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
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
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)
ErC50 algae	8.8 mg/l (OECD 201 method)
NOEC (chronic)	> 1 mg/l
NOEC chronic algae	3.1 mg/l (OECD 201 method)
toluene (108-88-3)	
LC50 - Fish [1]	5.5 (≥ 5) mg/l oncorhynchus kisutch
EC50 - Crustacea [1]	3.78 mg/l Daphnia magna
EC50 72h - Algae [1]	10 mg/l
ErC50 algae	3h 134 mg/l

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toluene (108-88-3)	
NOEC chronic crustacea	0.74 mg/l Ceriodaphnia dubai
NOEC chronic algae	10 mg/l Skeletonema costatum
12.2. Persistence and degradability	
Sanitary Sealant	
Persistence and degradability	May cause long-term adverse effects in the environment.
2-Pentanoxim (623-40-5)	
Biodegradation	9 %
3-aminopropyltriethoxysilane (919-30-2)	
Persistence and degradability	Not readily biodegradable. Hydrolysis in water.
Biodegradation	28d 67 % (OECD 301A method)
Fungicide 2-octyl-2H-isothiazol-3-one (26530-20-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	3 - 5 days
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable.
3-(2-aminoethylamino)propyltrimethoxysilane (1760-24-3)	
Biodegradation	39 % (OECD 301A method)
toluene (108-88-3)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1.23 g O ₂ /g substance
12.3. Bioaccumulative potential	
Sanitary Sealant	
Bioaccumulative potential	Not established.
2-Pentanoxim (623-40-5)	
Partition coefficient n-octanol/water (Log Pow)	1.43 at 22 °C
Partition coefficient n-octanol/water (Log Kow)	< 1.32
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.
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.
methanol (67-56-1)	
Bioconcentration factor (BCF REACH)	< 10

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methanol (67-56-1)

Partition coefficient n-octanol/water (Log Pow)	-0.77
Bioaccumulative potential	Low bioaccumulation potential.

toluene (108-88-3)

Bioaccumulative potential	Bioaccumulation unlikely.
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12.4. Mobility in soil

2-Pentanoneoxim (623-40-5)

Surface tension	69.5 mN/m at 20,2 °C
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2-Pentanone, O,O',O''-(methylsilyldiylne)trioxime (37859-55-5)

Surface tension	69.5 mN/m
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toluene (108-88-3)

Ecology - soil	Product adsorbs onto the soil.
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12.5. Results of PBT and vPvB assessment

Component

toluene (108-88-3)	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

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : 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.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN 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

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ADR	IMDG	IATA	ADN	RID
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

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. 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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Toluene		108-88-3	2902 30 00	Categorie 3		Bijlage I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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For the following substances of this mixture a chemical safety assessment has been carried out:

methanol

toluene

SECTION 16: Other 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
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
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
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
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.

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Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
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 (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
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH071	Corrosive to the respiratory tract.
EUH208	Contains 3-aminopropyltriethoxysilane, Fungicide 2-octyl-2H-isothiazol-3-one, 3-(2-aminoethylamino)propyltrimethoxysilane. May produce an allergic reaction.
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
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.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
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.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

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Full text of H- and EUH-statements:

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

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

Aquatic Chronic 3	H412	Calculation method
EUH208	EUH208	Calculation method

Original supplier version number : 1.0 250422

Safety Data Sheet (SDS), EU

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.