Version: 9.0

Supersedes version of: 7/12/2019

# Safety Data Sheet Quadroseal



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

Revision date: 4/28/2023

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

### 1.1. Product identifier

Product form : Mixture
Trade name : Quadroseal

#### 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

Bloem Sealants BV Westvlietweg 69 P.O. Box 24058 NL– 2495 Den Haag Nederland

T +31 (0)70 329 66 01 - F +31 (0)70 329 22 02 info@bloemsealants.com - www.bloemsealants.com

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

### **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 Fungicide 2-octyl-2H-isothiazol-3-one, 3- EUH208

aminopropyltriethoxysilane, N-(2-aminoethyl)-N'-[3-

(trimethoxysilyl)propyl]ethylenediamine. 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

### 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.

: EUH208 - Contains Fungicide 2-octyl-2H-isothiazol-3-one, 3-aminopropyltriethoxysilane, N-

(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine. May produce an allergic

reaction.

### 2.3. Other hazards

**EUH-statements** 

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

### Safety Data Sheet

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

Component		
N-(2-aminoethyl)-N'-[3- (trimethoxysilyl)propyl]ethylenediamine (35141-30-1)	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	
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	
ethanol; ethyl alcohol (64-17-5)	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

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzene, C14-30-alkyl derivs	CAS-No.: 68855-24-3 EC-No.: 272-472-8	≥ 2.5 – < 5	Aquatic Chronic 4, H413
2-Pentanone, O,O',O"-(methylsilylidyne)trioxime	CAS-No.: 37859-55-5 EC Index-No.: 484-460-1 REACH-no: 01-2120004323- 76	≥ 0.5 – < 5	Acute Tox. 4 (Oral), H302 (ATE=1133 mg/kg bodyweight) Eye Irrit. 2, H319 STOT RE 2, H373
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
N-(2-aminoethyl)-N'-[3- (trimethoxysilyl)propyl]ethylenediamine	CAS-No.: 35141-30-1 EC-No.: 252-390-9	≥ 0.1 – < 0.5	Eye Dam. 1, H318 Skin Sens. 1, H317
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 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336

### Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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-	< 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
ethanol; ethyl alcohol substance with a Community workplace exposure limit	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
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-	( 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 after eye contact

First-aid measures after ingestion

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 with plenty of water/.... Remove affected clothing and wash all exposed skin area

with mild soap and water, followed by warm water rinse.

Rinse immediately with plenty of water. Seek medical attention if ill effect or irritation

develops. Obtain medical attention if pain, blinking or redness persists.

: 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.

4/28/2023 (Revision date) EN (English) 3/17

### Safety Data Sheet

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

Symptoms/effects after inhalation : Not expected to present a significant inhalation 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 : May cause slight 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. 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 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

### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Respiratory protection equipment may be

necessary.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Do not allow to enter drains or water courses. 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 : Cover spill with non combustible material, e.g.: sa

: Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Collect all waste in suitable and labelled containers and dispose according to local legislation. 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.

4/28/2023 (Revision date) EN (English) 4/17

### Safety Data Sheet

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

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all unnecessary exposure. 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 a dry, cool 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

### 8.1.1 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	
IOEL TWA [ppm]	200 ppm	
Remark	Skin	
	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	266 mg/m³	
WEL TWA (OEL TWA) [2]	200 ppm	
WEL STEL (OEL STEL)	333 mg/m³	
WEL STEL (OEL STEL) [ppm]	250 ppm	
ethanol; ethyl alcohol (64-17-5)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	1900 mg/m³	
IOEL TWA [ppm]	1000 ppm	
IOEL STEL	9500 mg/m³	
IOEL STEL [ppm]	5000 ppm	
toluene (108-88-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Toluene	

4/28/2023 (Revision date) EN (English) 5/17

### Safety Data Sheet

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

toluene (108-88-3)		
IOEL TWA	192 mg/m³	
IOEL STEL	384 mg/m³	
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/m³	
WEL TWA (OEL TWA) [2]	50 ppm	
WEL STEL (OEL STEL)	384 mg/m³	
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. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### 8.2.2. Personal protection equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

### Personal protective equipment symbol(s):





#### 8.2.2.1. Eye and face protection

### Eye protection:

Chemical goggles or safety glasses

Eye protection				
Туре	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

### Safety Data Sheet

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

#### Hand protection:

In case of repeated or prolonged contact wear 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. Wear protective gloves.

Hand protection					
Туре	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. Take off immediately all contaminated clothing.

#### Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Transparent. : Paste. Appearance 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.

Explosive limits : Not available

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Flash point : 70 °C (ISO 3679)

Auto-ignition temperature : > 285 °C (calculated value)

Decomposition temperature : Not available
pH : insoluble in water
Viscosity, kinematic : 6010 mm²/s

Viscosity, dynamic : 6010 mPa·s (Brookfield spindle 96, 1 rpm)

Non-Newtonian liquid : Thixotropic behaviour Solubility : Water: Negligible.

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/cm³ Relative density : 1

Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

### Safety Data Sheet

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

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

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

3-aminopropyltriethoxysilane	
Vapour pressure	1.7 – 2 Pa

N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine	
Vapour pressure	0.015 Pa

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

### 10.4. Conditions to avoid

None to our knowledge. Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

None to our knowledge. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

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

### Safety Data Sheet

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

### **SECTION 11: Toxicological information**

11.1 Information on har	ard classes as defined in	Regulation (EC) No 1272/2008
11.1. Information on haz	ard classes as defined in	Redulation (EC) NO 12/2/2000

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : 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		
Benzene, C14-30-alkyl derivs (68855-24-3)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 3000 mg/kg		
2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)			
LD50 oral rat	1133 – 1234 mg/kg		
3-aminopropyltriethoxysilane (919-30-2)			
LD50 oral rat	2.83 ml/kg male		
LC50 Inhalation - Rat [ppm]	> 5 ppm male		
ethanol; ethyl alcohol (64-17-5)			
LD50 oral rat	> 2000 ml/kg		
LD50 dermal rabbit	> 2000 mg/kg		
LC50 Inhalation - Rat (Vapours)	124.7 mg/l/4h (OECD 403 method)		
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl	]ethylenediamine (35141-30-1)		
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rat	> 2000 mg/kg		
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)
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

### Safety Data Sheet

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

	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
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
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
2-Pentanone, O,O',O"-(methylsilylidyne)t	rioxime (37859-55-5)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
3-aminopropyltriethoxysilane (919-30-2)	

600 mg/kg bodyweight/day

200 mg/kg bodyweight

: (OECD 406 method)

NOAEC (inhalation, rat, vapour, 90 days)	20 mg/l

### .\_\_\_\_

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

NOAEL (oral, rat, 90 days) 500 mg/kg bodyweight/day

Aspiration hazard : Not classified

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

### Quadroseal

LOAEL (oral, rat, 90 days)

NOAEL (subchronic, oral, animal/male, 90 days)

ethanol; ethyl alcohol (64-17-5)

Viscosity, kinematic 6010 mm²/s

### 2-Pentanone, O,O',O"-(methylsilylidyne)trioxime (37859-55-5)

Viscosity, kinematic 16.1 mm²/s at 20 °C

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and

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

symptoms

### **SECTION 12: Ecological information**

### 12.1. Toxicity

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

Hazardous to the aquatic environment, short-term : Not classified

(acute)

4/28/2023 (Revision date) EN (English) 10/17

### Safety Data Sheet

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

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

(chronic)			
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		
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		
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.		
ethanol; ethyl alcohol (64-17-5)			
LC50 - Fish [1]	14200 mg/l pimephales promelas		
EC50 - Crustacea [1]	5012 mg/l		
EC50 72h - Algae [1]	11.5 mg/l		
NOEC chronic crustacea	9.6 mg/l		
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl	ethylenediamine (35141-30-1)		
LC50 - Fish [1]	597 (OECD 203 method)		
EC50 - Crustacea [1]	81 mg/l (OECD 202 method)		
EC50 72h - Algae [1]	126 mg/l Test method EU C.3		
NOEC chronic crustacea	> 1 mg/l (OECD 211 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		
NOEC chronic crustacea	0.74 mg/l Ceriodaphnia dubai		

toluene (108-88-3)

NOEC chronic algae

### Safety Data Sheet

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

12.2. Persistence and degradability	
Quadroseal	
Persistence and degradability	May cause long-term adverse effects in the environment.
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable.
Fungicide 2-octyl-2H-isothiazol-3-one (2653	0-20-1)
Persistence and degradability	Readily biodegradable.
Biodegradation	3 - 5 days
3-aminopropyltriethoxysilane (919-30-2)	
Persistence and degradability	Not readily biodegradable. Hydrolysis in water.
Biodegradation	28d 67 % (OECD 301A method)
ethanol; ethyl alcohol (64-17-5)	
Biochemical oxygen demand (BOD)	0.1 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.9 g O <sub>2</sub> /g substance
Biodegradation	74 % 20 days
toluene (108-88-3)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1.23 g O₂/g substance
12.3. Bioaccumulative potential	
Quadroseal	
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 (Log Pow)	-0.77
Bioaccumulative potential	Low bioaccumulation potential.
Fungicide 2-octyl-2H-isothiazol-3-one (2653	0-20-1)
Partition coefficient n-octanol/water (Log Kow)	2.92 (OECD 117 method)
Bioaccumulative potential	Low bioaccumulation potential.
2-Pentanone, O,O',O"-(methylsilylidyne)trio	xime (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.
4/28/2023 (Revision date)	EN (English) 12/1

10 mg/l Skeletonema costatum

### Safety Data Sheet

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

ethanol; ethyl alcohol (64-17-5)		
Partition coefficient n-octanol/water (Log Kow) -0.3		
toluene (108-88-3)		
Bioaccumulative potential	Bioaccumulation unlikely.	

### 12.4. Mobility in soil

2-Pentanone, O,O',O"-(methylsilylidyne)trioxime (37859-55-5)		
Surface tension 69.5 mN/m		
toluene (108-88-3)		
Ecology - soil Product adsorbs onto the soil.		

### 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)

: 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 or ID n	14.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shippin	g 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	14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No		

### Safety Data Sheet

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

ADR	IMDG	IATA	ADN	RID
No supplementary information available				

### 14.6. Special precautions for user

**Overland transport** 

Transport regulations (ADR) : Not classified.

Transport by sea

Transport regulations (IMDG) : Not classified.

Air transport

Transport regulations (IATA) : Not classified.

Inland waterway transport

Transport regulations (ADN) : Not classified.

Rail transport

Transport regulations (RID) : Not classified.

### 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

### 15.1.1. 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 (1005/2009)

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

### **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 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)

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

#### 15.1.2. National regulations

No additional information available

### Safety Data Sheet

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

### 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

toluene

### **SECTION 16: Other information**

#### Indication of changes:

Regulatory information. Physical and chemical properties.

Abbreviations and acronyms:				
CAS-No.	Chemical Abstract Service number			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
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			
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			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			
SDS	Safety Data Sheet			
vPvB	Very Persistent and Very Bioaccumulative			

Data sources

<sup>:</sup> 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.

### Safety Data Sheet

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

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)	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 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4			
Asp. Tox. 1	Aspiration hazard, Category 1			
EUH071	Corrosive to the respiratory tract.			
EUH208	Contains Fungicide 2-octyl-2H-isothiazol-3-one, 3-aminopropyltriethoxysilane, N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine. 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.			
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.			
H413	May cause long lasting harmful effects to aquatic life.			
Repr. 2	Reproductive toxicity, Category 2			

### Safety Data Sheet

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

Full text of H- and EUH-statements:			
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, Narcosis		

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		

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.