



A CSW Industrials Company

METACAULK® 1000

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 1/26/2024 Revision date: 1/29/2024 Supersedes version of: 1/29/2024 Version: 1.3

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

1.1. Product identifier

Product form : Mixture
Trade name : METACAULK® 1000
UFI : NVU0-20YQ-200E-7JQW
Product group : Mixtures

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Flame retardants and fire preventing agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

RectorSeal, LLC
2601 Spenwick Drive
77055 Houston, Texas
USA
T (800)-231-3345 or (713)263-8001
www.rectorseal.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week
Within USA and Canada: 1.800.424.9300
Outside USA and Canada: +1.703.527.3887
(collect calls accepted)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals
United Kingdom	Chemtrec - United Kingdom	London	Local (City) +44 20 3807 3798	
United Kingdom	Chemtrec - United Kingdom		Local (National) +44 870 820 0418	
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

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Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: Ethylendiamin-o-phosphat

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P261 - Avoid breathing fume, vapours, dust.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Ethylene Glycol, 1,2-Ethanediol (107-21-1) ⁽¹⁾ , ethyl acetate (141-78-6) ⁽¹⁾ , Methanol (67-56-1) ⁽¹⁾ , Polyethylene glycol octylphenyl ether (9036-19-5), 1-Propanol,2-amino-2-methyl- (124-68-5), 4-hydroxy-4-methyl-2-pentanone (123-42-2), iron(III) oxide (1309-37-1), graphite (7782-42-5), quartz, 1% \leq sconc respirable crystalline silica<10% (14808-60-7) ⁽¹⁾
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethylene Glycol, 1,2-Ethanediol (107-21-1) ⁽¹⁾ , ethyl acetate (141-78-6) ⁽¹⁾ , Methanol (67-56-1) ⁽¹⁾ , Polyethylene glycol octylphenyl ether (9036-19-5), 1-Propanol,2-amino-2-methyl- (124-68-5), 4-hydroxy-4-methyl-2-pentanone (123-42-2), iron(III) oxide (1309-37-1), graphite (7782-42-5), quartz, 1% \leq sconc respirable crystalline silica<10% (14808-60-7) ⁽¹⁾

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

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are 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

Component	
Substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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	Polyethylene glycol octylphenyl ether (9036-19-5)

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]
iron(III) oxide substance with national workplace exposure limit(s) (GB)	CAS-No.: 1309-37-1 EC-No.: 215-168-2	16.902 – 18.78	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
kaolin substance with national workplace exposure limit(s) (GB)	CAS-No.: 1332-58-7 EC-No.: 310-194-1	6.4896 – 6.6924	Not classified
Ethylendiamin-o-phosphat	CAS-No.: 14852-17-6 EC-No.: 238-914-9	1.21	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Polyethylene glycol octylphenyl ether substance listed as REACH Candidate (4-(1,1,3,3- tetramethylbutyl)phenol, ethoxylated) substance listed in REACH Annex XIV (4-(1,1,3,3- Tetramethylbutyl) phenol, ethoxylated (covering well- defined substances and UVCB substances, polymers and homologues)) substance identified as having endocrine disrupting properties	CAS-No.: 9036-19-5	≥ 1.1109	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-Propanol,2-amino-2-methyl-	CAS-No.: 124-68-5 EC-No.: 204-709-8 EC Index-No.: 603-070-00-6	0.963 – 1.07	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
1-propene, homopolymer substance with national workplace exposure limit(s) (GB)	CAS-No.: 9003-07-0	0.985	Not classified
graphite substance with national workplace exposure limit(s) (GB)	CAS-No.: 7782-42-5 EC-No.: 231-955-3	0.5157	Aquatic Chronic 2, H411
4-hydroxy-4-methyl-2-pentanone substance with national workplace exposure limit(s) (GB)	CAS-No.: 123-42-2 EC-No.: 204-626-7 EC Index-No.: 603-016-00-1	0.4257 – 0.43	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:vapour), H331 Eye Irrit. 2, H319
2-methyl-4-isothiazolin-3-one	CAS-No.: 2682-20-4	0.07242 – 0.1207	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-Propanol, 2-methyl-2-(methylamino)	CAS-No.: 27646-80-6	0.0535 – 0.107	Acute Tox. 3 (Dermal), H311
Ethylene Glycol, 1,2-Ethanediol substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1	≤ 0.02751826	Acute Tox. 4 (Oral), H302
quartz, 1%≤conc respirable crystalline silica<10% substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	0.0243	Not classified
ethyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5	≤ 0.00033066	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Methanol substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X	≤ 0.00014696	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
4-hydroxy-4-methyl-2-pentanone	CAS-No.: 123-42-2 EC-No.: 204-626-7 EC Index-No.: 603-016-00-1	(10 ≤ C ≤ 100) Eye Irrit. 2, H319

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X	(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 inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

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

Ethylene Glycol, 1,2-Ethanediol (107-21-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Ethane-1,2-diol

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Ethylene Glycol, 1,2-Ethanediol (107-21-1)	
WEL TWA (OEL TWA)	10 mg/m ³ particulate
	52 mg/m ³ vapour
	20 ppm vapour
WEL STEL (OEL STEL)	104 mg/m ³ vapour
	40 ppm vapour
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
ethyl acetate (141-78-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Ethyl acetate
WEL TWA (OEL TWA)	734 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
	400 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Methanol (67-56-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Methanol
WEL TWA (OEL TWA)	266 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	333 mg/m ³
	250 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
4-hydroxy-4-methyl-2-pentanone (123-42-2)	
United Kingdom - Occupational Exposure Limits	
Local name	4-Hydroxy-4-methylpentan-2-one
WEL TWA (OEL TWA)	241 mg/m ³
	50 ppm
WEL STEL (OEL STEL)	362 mg/m ³
	75 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
1-propene, homopolymer (9003-07-0)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	10 mg/m ³
	4 mg/m ³
iron(III) oxide (1309-37-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Rouge
WEL TWA (OEL TWA)	4 mg/m ³ respirable
	10 mg/m ³ total inhalable
WEL STEL (OEL STEL)	10 mg/m ³ fume (as Fe)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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kaolin (1332-58-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Kaolin
WEL TWA (OEL TWA)	2 mg/m ³ respirable dust
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
graphite (7782-42-5)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	10 mg/m ³ 4 mg/m ³
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Silica
WEL TWA (OEL TWA)	0.1 mg/m ³ respirable crystalline
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

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

8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Neoprene or nitrile rubber gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes), 6 (> 480 minutes)	> 0.6 mm		

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: red.
Appearance	: Paste.
Odour	: Mild odor.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: 100 °C
Flammability	: Not available
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: None
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: 8.5
pH solution concentration	: 100 %
Viscosity, kinematic	: > 23 mm ² /s
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: > 1
VOC content	: < 1 % Theoretical value

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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Ethylene Glycol, 1,2-Ethanediol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight Animal: rat
LD50 dermal	> 3500 mg/kg bodyweight (Mouse, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat	> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	2.7 mg/l/4h
ethyl acetate (141-78-6)	
LD50 oral rat	10200 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)
LD50 oral	4940 mg/kg
LD50 dermal rabbit	> 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat (Vapours)	49.9 mg/l/4h
Methanol (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg bodyweight Animal: rat
LD50 oral	1400 mg/kg
LD50 dermal rabbit	17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 Inhalation - Rat	128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))
Polyethylene glycol octylphenyl ether (9036-19-5)	
LD50 oral rat	4190 mg/kg (Rat, Oral)
LD50 oral	1700 mg/kg
LD50 dermal rabbit	> 3000 mg/kg (Rabbit, Dermal)
1-Propanol,2-amino-2-methyl- (124-68-5)	
LD50 oral rat	2900 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	2900 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
1-Propanol, 2-methyl-2-(methylamino) (27646-80-6)	
LD50 dermal rabbit	500 mg/kg
4-hydroxy-4-methyl-2-pentanone (123-42-2)	
LD50 oral rat	3002 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2738 - 3290
LD50 oral	4000 mg/kg
LD50 dermal rat	> 1875 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 1875 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	≥ 7.6 mg/l Source: ECHA
1-propene, homopolymer (9003-07-0)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
iron(III) oxide (1309-37-1)	
LD50 oral rat	> 10000 mg/kg bodyweight (Rat, Male, Experimental value, Oral)
LC50 Inhalation - Rat (Dust/Mist)	5.05 mg/l Source: ECHA
kaolin (1332-58-7)	
LD50 oral rat	> 5000 mg/kg Source: HSDB

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kaolin (1332-58-7)	
LD50 dermal rat	> 5000 mg/kg Source: HSDB
LC50 Inhalation - Rat (Dust/Mist)	≥ 5 mg/l
graphite (7782-42-5)	
LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LC50 Inhalation - Rat	> 2000 mg/m ³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))
LC50 Inhalation - Rat (Dust/Mist)	> 2 mg/l Source: ECHA
Skin corrosion/irritation	: Not classified pH: 8.5
Ethylene Glycol, 1,2-Ethandiol (107-21-1)	
pH	6 – 7.5 Source: GESTIS
Polyethylene glycol octylphenyl ether (9036-19-5)	
pH	6 – 7.5 (1 %)
1-Propanol,2-amino-2-methyl- (124-68-5)	
pH	11.3 (0.9 %)
iron(III) oxide (1309-37-1)	
pH	7 (5 %)
kaolin (1332-58-7)	
pH	4.5 Source: hsdB
graphite (7782-42-5)	
pH	7 (1.3 %)
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	
pH	5 – 8 (40 %, 20 °C)
Serious eye damage/irritation	: Not classified pH: 8.5
Ethylene Glycol, 1,2-Ethandiol (107-21-1)	
pH	6 – 7.5 Source: GESTIS
Polyethylene glycol octylphenyl ether (9036-19-5)	
pH	6 – 7.5 (1 %)
1-Propanol,2-amino-2-methyl- (124-68-5)	
pH	11.3 (0.9 %)
iron(III) oxide (1309-37-1)	
pH	7 (5 %)
kaolin (1332-58-7)	
pH	4.5 Source: hsdB
graphite (7782-42-5)	
pH	7 (1.3 %)
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	
pH	5 – 8 (40 %, 20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.

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Ethylendiamin-o-phosphat (14852-17-6)	
Additional information	May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
1-propene, homopolymer (9003-07-0)	
IARC group	3 - Not classifiable
iron(III) oxide (1309-37-1)	
IARC group	3 - Not classifiable
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	
IARC group	1 - Carcinogenic to humans
Ethylene Glycol, 1,2-Ethanediol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
Reproductive toxicity	: Not classified
Methanol (67-56-1)	
NOAEL (animal/male, F0/P)	< 1000 mg/kg bodyweight Animal: mouse, Animal sex: male
STOT-single exposure	: Not classified
ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
Methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.
STOT-repeated exposure	: Not classified
ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
4-hydroxy-4-methyl-2-pentanone (123-42-2)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	≥ 4.106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
graphite (7782-42-5)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.000279 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Aspiration hazard	: Not classified
METACAULK® 1000	
Viscosity, kinematic	> 23 mm ² /s
Ethylene Glycol, 1,2-Ethanediol (107-21-1)	
Viscosity, kinematic	18.86 mm ² /s (20 °C)
ethyl acetate (141-78-6)	
Viscosity, kinematic	0.489 mm ² /s (25 °C)

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Polyethylene glycol octylphenyl ether (9036-19-5)	
Viscosity, kinematic	371.429 mm ² /s
1-Propanol,2-amino-2-methyl- (124-68-5)	
Viscosity, kinematic	Not applicable (solid)
4-hydroxy-4-methyl-2-pentanone (123-42-2)	
Viscosity, kinematic	1.966 mm ² /s
iron(III) oxide (1309-37-1)	
Viscosity, kinematic	Not applicable (solid)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Component	
Polyethylene glycol octylphenyl ether (9036-19-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: 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.

Ethylene Glycol, 1,2-Ethandiol (107-21-1)	
LC50 - Fish [1]	72860 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	3536 mg/l Test organisms (species): other:greenn algae
EC50 96h - Algae [2]	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
NOEC chronic crustacea	4.2 mg/l

ethyl acetate (141-78-6)	
LC50 - Fish [1]	230 mg/l
EC50 - Crustacea [1]	2500 mg/l
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l
EC50 - Crustacea [1]	1340 mg/l
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Polyethylene glycol octylphenyl ether (9036-19-5)	
LC50 - Fish [1]	7.2 mg/l
EC50 96h - Algae [1]	0.21 mg/l
ErC50 algae	0.21 mg/l

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1-Propanol,2-amino-2-methyl- (124-68-5)	
LC50 - Fish [1]	190 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	65 mg/l
4-hydroxy-4-methyl-2-pentanone (123-42-2)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	> 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
LOEC (chronic)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
iron(III) oxide (1309-37-1)	
LC50 - Fish [1]	≥ 50000 mg/l Source: ECHA
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
Ethyldiamin-o-phosphat (14852-17-6)	
LC50 - Fish [1]	203 mg/l
EC50 - Other aquatic organisms [1]	19.1 mg/l
graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	19 mg/l
EC50 72h - Algae [2]	7.2 mg/l
ErC50 algae	> 100 mg/l
NOEC (chronic)	47 mg/l
12.2. Persistence and degradability	
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Persistence and degradability	Not rapidly degradable
Ethylene Glycol, 1,2-Ethanediol (107-21-1)	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance
ThOD	1.29 g O ₂ /g substance
BOD (% of ThOD)	0.36
ethyl acetate (141-78-6)	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.293 g O ₂ /g substance
Chemical oxygen demand (COD)	1.69 g O ₂ /g substance
ThOD	1.82 g O ₂ /g substance
Methanol (67-56-1)	
Persistence and degradability	Biodegradable in the soil; Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O ₂ /g substance
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance
ThOD	1.5 g O ₂ /g substance

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Polyethylene glycol octylphenyl ether (9036-19-5)	
Persistence and degradability	Biodegradability in water: no data available.
1-Propanol,2-amino-2-methyl- (124-68-5)	
Persistence and degradability	Readily biodegradable in water.
1-Propanol, 2-methyl-2-(methylamino) (27646-80-6)	
Persistence and degradability	Not rapidly degradable
4-hydroxy-4-methyl-2-pentanone (123-42-2)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.07 g O ₂ /g substance
Chemical oxygen demand (COD)	2.11 g O ₂ /g substance
ThOD	2.21 g O ₂ /g substance
1-propene, homopolymer (9003-07-0)	
Persistence and degradability	Biodegradability in soil: no data available,Not readily biodegradable in water.
iron(III) oxide (1309-37-1)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Ethylendiamin-o-phosphat (14852-17-6)	
Persistence and degradability	Not rapidly degradable
2-methyl-4-isothiazolin-3-one (2682-20-4)	
Persistence and degradability	Not rapidly degradable
kaolin (1332-58-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
graphite (7782-42-5)	
Persistence and degradability	Not rapidly degradable
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
Ethylene Glycol, 1,2-Ethanediol (107-21-1)	
BCF - Fish [1]	10 (72 h, Leuciscus idus)
BCF - Other aquatic organisms [1]	0.21 – 0.6 (Procambarus sp., Chronic)
BCF - Other aquatic organisms [2]	190 (24 h, Algae)
Partition coefficient n-octanol/water (Log Pow)	-1.34 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.
ethyl acetate (141-78-6)	
BCF - Fish [1]	30 (3 day(s), Leuciscus idus, Static system, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	0.68 (Experimental value, EPA OPPTS 830.7560, 25 °C)

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ethyl acetate (141-78-6)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Methanol (67-56-1)	
BCF - Fish [1]	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Polyethylene glycol octylphenyl ether (9036-19-5)	
Bioaccumulative potential	No bioaccumulation data available.
1-Propanol,2-amino-2-methyl- (124-68-5)	
BCF - Fish [1]	< 1 (3 day(s), Leuciscus idus, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-0.63 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-hydroxy-4-methyl-2-pentanone (123-42-2)	
Partition coefficient n-octanol/water (Log Pow)	1.9 (Read-across, Equivalent or similar to OECD 117)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
1-propene, homopolymer (9003-07-0)	
Bioaccumulative potential	Not bioaccumulative.
iron(III) oxide (1309-37-1)	
Partition coefficient n-octanol/water (Log Pow)	0.97 Source: QSAR
Bioaccumulative potential	No bioaccumulation data available.
kaolin (1332-58-7)	
Bioaccumulative potential	No bioaccumulation data available.
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	
Bioaccumulative potential	Bioaccumulation unlikely.
12.4. Mobility in soil	
Ethylene Glycol, 1,2-Ethandiol (107-21-1)	
Mobility in soil	0.2 Source: HSDB
Surface tension	48 mN/m (20 °C)
Ecology - soil	No (test) data on mobility of the substance available.
ethyl acetate (141-78-6)	
Surface tension	0.024 N/m (20 °C)
Ecology - soil	Low potential for adsorption in soil.
Methanol (67-56-1)	
Mobility in soil	2.75 Source: HSDB
Surface tension	0.023 N/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Expected to be highly mobile in soil.
1-Propanol,2-amino-2-methyl- (124-68-5)	
Surface tension	58.4 mN/m (25 °C, 10 %)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.083 – 0.404 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

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4-hydroxy-4-methyl-2-pentanone (123-42-2)	
Ecology - soil	Low potential for adsorption in soil.
iron(III) oxide (1309-37-1)	
Surface tension	Not applicable (solid)
Ecology - soil	Adsorbs into the soil.
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	
Ecology - soil	Low potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Ethylene Glycol, 1,2-Ethanediol (107-21-1) ⁽¹⁾ , ethyl acetate (141-78-6) ⁽¹⁾ , Methanol (67-56-1) ⁽¹⁾ , Polyethylene glycol octylphenyl ether (9036-19-5), 1-Propanol,2-amino-2-methyl- (124-68-5), 4-hydroxy-4-methyl-2-pentanone (123-42-2), iron(III) oxide (1309-37-1), graphite (7782-42-5), quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7) ⁽¹⁾
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethylene Glycol, 1,2-Ethanediol (107-21-1) ⁽¹⁾ , ethyl acetate (141-78-6) ⁽¹⁾ , Methanol (67-56-1) ⁽¹⁾ , Polyethylene glycol octylphenyl ether (9036-19-5), 1-Propanol,2-amino-2-methyl- (124-68-5), 4-hydroxy-4-methyl-2-pentanone (123-42-2), iron(III) oxide (1309-37-1), graphite (7782-42-5), quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7) ⁽¹⁾

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

12.6. Endocrine disrupting properties

Component	
Polyethylene glycol octylphenyl ether (9036-19-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

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Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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 substance(s) listed on REACH Annex XIV: 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (CAS 9036-19-5)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (CAS 9036-19-5)

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)

Dual-Use Regulation (428/2009)

Contains substance(s) listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items: Graphite (7782-42-5)

VOC Directive (2004/42)

VOC content : < 1 % Theoretical value

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

This product is listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements

This product is listed on the DSL or otherwise complies with CEPA" new substance notification requirements."

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)

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Abbreviations and acronyms:	
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
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
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

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Full text of H- and EUH-statements:	
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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
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

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.