

Carefree Shine & Care

Revision: 2024-08-07

Version: 01.0

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

1.1 Product identifier

Trade name: Carefree Shine & Care

UFI: 6QFK-D1RN-300G-HS99

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

Product use: Floor polish/impregnating agent.
For professional use only.

Uses advised against: Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_4_1
AISE_SWED_PW_10_1
AISE_SWED_PW_13_2
AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssebroeksedijk 2, 3542DN Utrecht], The Netherlands

Contact details

Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@solenis.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Chronic aquatic toxicity, Category 3 (H412)

2.2 Label elements

Contains 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone), 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), Rosin, fumarated, polymer with glycerol, ammonium salt, tetraamminezinc(2+) carbonate

Hazard statements:

H412 - Harmful to aquatic life with long lasting effects.
EUH208 - May produce an allergic reaction.

Further indications on the label:

Contains: preservative.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
(2-methoxymethylethoxy)propanol	252-104-2	34590-94-8	01-211945001 1-60	Not classified as hazardous		3-10
Rosin, fumarated, polymer with glycerol, ammonium salt	[4]	68554-18-7	[4]	Eye irritation, Category 2 (H319) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 4 (H413)		0.1-1

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tetraamminezinc(2+) carbonate	254-099-2	38714-47-5	[1]	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Skin sensitisation, Category 1 (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.1-1
ammonia	215-647-6	1336-21-6	01-211948887 6-14	Skin corrosion, Category 1B (H314) Specific target organ toxicity - Single exposure, Category 3 (H335) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)	0.1-1
1,2-benzisothiazol-3(2H)-one	220-120-9	2634-33-5	[6]	Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.01-0.1
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	[6]	Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) EUH071 Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	< 0.01
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	220-239-6 247-500-7	55965-84-9	[6]	Acute toxicity - Dermal, Category 2 (H310) Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Skin corrosion, Category 1C (H314) EUH071 Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=100 (H400) Chronic aquatic toxicity, Category 1 M=100 (H410)	< 0.01

Specific concentration limits

ammonia:

- Specific target organ toxicity - Single exposure, Category 3 (H335) >= 5%

1,2-benzisothiazol-3(2H)-one:

- Skin sensitisation, Category 1 (H317) >= 0.036%

2-methyl-2H-isothiazol-3-one:

- Skin sensitisation, Category 1 (H317) >= 0.0015%

5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1):

- Skin sensitisation, Category 1 (H317) >= 0.0015%
- Serious eye damage, Category 1 (H318) >= 0.6% > Eye irritation, Category 2 (H319) >= 0.06%
- Skin corrosion, Category 1C (H314) >= 0.6% > Skin irritation, Category 2 (H315) >= 0.06%

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

SECTION 4: First aid measures**4.1 Description of first aid measures****Inhalation:**

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

No known effects or symptoms in normal use.

Skin contact:

No known effects or symptoms in normal use.

Eye contact:

No known effects or symptoms in normal use.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
(2-methoxymethylethoxy)propanol	50 ppm 308 mg/m ³	150 ppm 924 mg/m ³
ammonia	25 ppm 18 mg/m ³	35 ppm 25 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic

	effects	effects	effects	effects
(2-methoxymethylethoxy)propanol	-	-	-	36
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available	No data available	No data available	No data available
tetraamminezinc(2+) carbonate	No data available	No data available	No data available	No data available
ammonia	-	-	-	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	0.027
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
(2-methoxymethylethoxy)propanol	No data available	-	No data available	283
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available	No data available	No data available	No data available
tetraamminezinc(2+) carbonate	No data available	No data available	No data available	No data available
ammonia	No data available	6.8	No data available	6.8
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
(2-methoxymethylethoxy)propanol	No data available	-	No data available	15
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available	No data available	No data available	No data available
tetraamminezinc(2+) carbonate	No data available	No data available	No data available	No data available
ammonia	No data available	-	No data available	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
(2-methoxymethylethoxy)propanol	-	-	-	308
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available	No data available	No data available	No data available
tetraamminezinc(2+) carbonate	No data available	No data available	No data available	No data available
ammonia	36	47.6	14	47.6
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
(2-methoxymethylethoxy)propanol	-	-	-	37.2
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available	No data available	No data available	No data available
tetraamminezinc(2+) carbonate	No data available	No data available	No data available	No data available
ammonia	-	-	-	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
(2-methoxymethylethoxy)propanol	19	1.9	190	4168
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available	No data available	No data available	No data available
tetraamminezinc(2+) carbonate	No data available	No data available	No data available	No data available
ammonia	0.0011	0.011	-	-
1,2-benzisothiazol-3(2H)-one	0.0026	0.00026	-	0.055
2-methyl-2H-isothiazol-3-one	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
(2-methoxymethylethoxy)propanol	70.2	7.02	2.74	190
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available	No data available	No data available	No data available
tetraamminezinc(2+) carbonate	No data available	No data available	No data available	No data available
ammonia	-	-	-	-
1,2-benzisothiazol-3(2H)-one	0.0132	-	0.33	-
2-methyl-2H-isothiazol-3-one	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Machine application	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Manual application by brushing, wiping or mopping					
Manual application by dipping, soaking, pouring	AISE_SWED_PW_13_2	PW	PROC 13	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321 / EN 166).
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

	Method / remark
Physical state: Liquid	
Colour: Milky , White	
Odour: Product specific	
Odour threshold: Not applicable	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
(2-methoxymethylethoxy)propanol	189.6	Method not given	1013
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available		
tetraamminezinc(2+) carbonate	No data available		
ammonia	28.5	Method not given	
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

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Flammability (solid, gas): Not applicable to liquids**Flammability (liquid):** Not flammable.**Flash point (°C):** > 75 °C**Sustained combustion:** The product does not sustain combustion
(UN Manual of Tests and Criteria, section 32, L.2)**Lower and upper explosion limit/flammability limit (%):** Not determined**Method / remark**

closed cup

Weight of evidence

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
(2-methoxymethylethoxy)propanol	1.1	14
ammonia	15.4	33.6

Method / remark**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**pH:** ≈ 8 (neat)**Kinematic viscosity:** Not determined**Solubility in / Miscibility with water:** Fully miscible

ISO 4316

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
(2-methoxymethylethoxy)propanol	Soluble	Method not given	20
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available		
tetraamminezinc(2+) carbonate	No data available		
ammonia	100 Soluble	Method not given	20
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
(2-methoxymethylethoxy)propanol	37.1	Method not given	20
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available		
tetraamminezinc(2+) carbonate	No data available		
ammonia	586500	Method not given	20
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	2.2	Weight of Evidence	25

Method / remark**Relative density:** ≈ 1.03 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

9.2 Other information**9.2.1 Information with regard to physical hazard classes****Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.**Oxidising properties:** Not oxidising.**Corrosion to metals:** Not corrosive**9.2.2 Other safety characteristics**

No other relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
(2-methoxymethylethoxy)propanol	LD ₅₀	> 5000	Rat	OECD 401 (EU B.1)		Not established
Rosin, fumarated, polymer with glycerol, ammonium salt	LD ₅₀	> 2000				Not established
tetraamminezinc(2+) carbonate		No data available				Not established
ammonia	LD ₅₀	350	Rat	Method not given		Not established
1,2-benzisothiazol-3(2H)-one	LD ₅₀	> 2000	Rat			450
2-methyl-2H-isothiazol-3-one	LD ₅₀	120	Rat	OECD 401 (EU B.1)		120
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LD ₅₀	64	Rat	Method not given		64

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
(2-methoxymethylethoxy)propanol	LD ₅₀	9510	Rabbit	Method not given		Not established
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available				Not established
tetraamminezinc(2+) carbonate		No data available				Not established
ammonia		No data available				Not established
1,2-benzisothiazol-3(2H)-one	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)		Not established
2-methyl-2H-isothiazol-3-one	LD ₅₀	242	Rat	OECD 402 (EU B.3)	24 hours	242
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LD ₅₀	87.12	Rabbit	Method not given		87.12

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	LC ₀	> 1.667 (vapour) No mortality observed	Rat		7
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available			
tetraamminezinc(2+) carbonate		No data available			
ammonia	LC ₅₀	7.035	Rat	Method not given	0.5
1,2-benzisothiazol-3(2H)-one		No data available			
2-methyl-2H-isothiazol-3-one	LC ₅₀	(mist) 0.11	Rat	OECD 403 (EU B.2)	4 hours
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LC ₅₀	0.33	Rat		

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
(2-methoxymethylethoxy)propanol	Not established	Not established	Not established	Not established
Rosin, fumarated, polymer with glycerol, ammonium salt	Not established	Not established	Not established	Not established
tetraamminezinc(2+) carbonate	Not established	Not established	Not established	Not established
ammonia	Not established	Not established	Not established	Not established
1,2-benzisothiazol-3(2H)-one	Not established	0.21	Not established	Not established
2-methyl-2H-isothiazol-3-one	Not established	0.11	Not established	Not established
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Not established	0.33	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	Not irritant		Method not given	
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available			
tetraamminezinc(2+) carbonate	No data available			
ammonia	Corrosive		Method not given	
1,2-benzisothiazol-3(2H)-one	Corrosive		Method not given	
2-methyl-2H-isothiazol-3-one	Corrosive			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Corrosive		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	Not corrosive or irritant		Method not given	
Rosin, fumarated, polymer with glycerol, ammonium salt	Irritant			
tetraamminezinc(2+) carbonate	No data available			
ammonia	Severe damage		Method not given	
1,2-benzisothiazol-3(2H)-one	Severe damage		Method not given	
2-methyl-2H-isothiazol-3-one	No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	No data available			
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available			
tetraamminezinc(2+) carbonate	No data available			
ammonia	Irritating to respiratory tract		Method not given	
1,2-benzisothiazol-3(2H)-one	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	Not sensitising		Method not given	
Rosin, fumarated, polymer with glycerol, ammonium salt	Sensitising			
tetraamminezinc(2+) carbonate	No data available			
ammonia	Not sensitising		Method not given	
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		
2-methyl-2H-isothiazol-3-one	Sensitising	Guinea pig		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Sensitising	Guinea pig	Method not given OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	No data available			
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available			
tetraamminezinc(2+) carbonate	No data available			
ammonia	No data available			

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1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
(2-methoxymethylethoxy)propanol	No evidence for mutagenicity, negative test results	Method not given	No data available	
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available		No data available	
tetraamminezinc(2+) carbonate	No data available		No data available	
ammonia	No evidence for mutagenicity		No evidence for mutagenicity	
1,2-benzisothiazol-3(2H)-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
2-methyl-2H-isothiazol-3-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No evidence for mutagenicity	Method not given	No data available	

Carcinogenicity

Ingredient(s)	Effect
(2-methoxymethylethoxy)propanol	No evidence for carcinogenicity, negative test results
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available
tetraamminezinc(2+) carbonate	No data available
ammonia	No data available
1,2-benzisothiazol-3(2H)-one	No data available
2-methyl-2H-isothiazol-3-one	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
(2-methoxymethylethoxy)propanol			No data available				No evidence for reproductive toxicity
Rosin, fumarated, polymer with glycerol, ammonium salt			No data available				
tetraamminezinc(2+) carbonate			No data available				
ammonia			No data available				No evidence for reproductive toxicity
1,2-benzisothiazol-3(2H)-one			No data available				
2-methyl-2H-isothiazol-3-one			No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)			No data available				No evidence for reproductive toxicity No evidence for teratogenic effects

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(2-methoxymethylethoxy)propanol		No data available				
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available				
tetraamminezinc(2+) carbonate		No data available				
ammonia	NOAEL	68		Method not given		
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(2-methoxymethylethoxy)propanol		No data available				
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available				
tetraamminezinc(2+) carbonate		No data available				
ammonia		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(2-methoxymethylethoxy)propanol		No data available				
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available				
tetraamminezinc(2+) carbonate		No data available				
ammonia		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
(2-methoxymethylethoxy)propanol			No data available					
Rosin, fumarated, polymer with glycerol, ammonium salt			No data available					
tetraamminezinc(2+) carbonate			No data available					
ammonia			No data available					
1,2-benzisothiazol-3(2H)-one			No data available					
2-methyl-2H-isothiazol-3-one			No data available					
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
(2-methoxymethylethoxy)propanol	No data available
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available
tetraamminezinc(2+) carbonate	No data available
ammonia	No data available
1,2-benzisothiazol-3(2H)-one	No data available
2-methyl-2H-isothiazol-3-one	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
(2-methoxymethylethoxy)propanol	No data available
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available

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tetraamminezinc(2+) carbonate	No data available
ammonia	No data available
1,2-benzisothiazol-3(2H)-one	No data available
2-methyl-2H-isothiazol-3-one	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

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

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture .

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	LC ₅₀	> 1000	<i>Poecilia reticulata</i>	Method not given	96
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available			
tetraamminezinc(2+) carbonate	LC ₅₀	< 1	<i>Oncorhynchus mykiss</i>	Read across	
ammonia	LC ₅₀	0.56 - 2.48	<i>Fish</i>	Method not given	96
1,2-benzisothiazol-3(2H)-one	LC ₅₀	2.18	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	
2-methyl-2H-isothiazol-3-one	LC ₅₀	4.77	<i>Oncorhynchus mykiss</i>	Similar to OECD 203	96
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LC ₅₀	0.28	<i>Lepomis macrochirus</i>	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	EC ₅₀	1919	<i>Daphnia magna Straus</i>	Method not given	48
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available			
tetraamminezinc(2+) carbonate	EC ₅₀	1.2	<i>Ceriodaphnia dubia</i>	Read across	
ammonia	EC ₅₀	1.1 - 22.8	<i>Daphnia magna Straus</i>	Method not given	
1,2-benzisothiazol-3(2H)-one	EC ₅₀	2.94	<i>Daphnia</i>	OECD 202 (EU C.2)	48
2-methyl-2H-isothiazol-3-one	LC ₅₀	0.93-1.9	<i>Daphnia magna Straus</i>	Method not given	48
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC ₅₀	0.126	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	EC ₅₀	> 969	<i>Selenastrum capricornutum</i>	Method not given	72
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available			
tetraamminezinc(2+) carbonate	EC ₅₀	0.403	<i>Pseudokirchneriella subcapitata</i>	Read across	
ammonia		No data			

		available			
1,2-benzisothiazol-3(2H)-one	E _r C ₅₀	0.11		OECD 201 (EU C.3)	72
2-methyl-2H-isothiazol-3-one	EC ₅₀	0.158	<i>Selenastrum capricornutum</i>	Method not given	72
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC ₅₀	0.003	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
(2-methoxymethylethoxy)propanol		No data available			
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available			
tetraamminezinc(2+) carbonate		No data available			
ammonia		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
(2-methoxymethylethoxy)propanol	EC ₁₀	4168	<i>Pseudomonas putida</i>	Method not given	
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available			
tetraamminezinc(2+) carbonate		No data available			
ammonia		No data available			
1,2-benzisothiazol-3(2H)-one	EC ₂₀	3.3	<i>Activated sludge</i>	OECD 209	3 hour(s)
2-methyl-2H-isothiazol-3-one	EC ₂₀	2.8	<i>Activated sludge</i>	OECD 209	3 hour(s)
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC ₂₀	0.97	<i>Activated sludge</i>	OECD 209	3 hour(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
(2-methoxymethylethoxy)propanol		No data available				
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available				
tetraamminezinc(2+) carbonate		No data available				
ammonia		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
(2-methoxymethylethoxy)propanol	NOEC	> 0.5	<i>Daphnia magna</i>	Method not given	22 day(s)	
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available				
tetraamminezinc(2+) carbonate		No data available				
ammonia		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				

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		available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
(2-methoxymethylethoxy)propanol		No data available				
Rosin, fumarated, polymer with glycerol, ammonium salt		No data available				
tetraamminezinc(2+) carbonate		No data available				
ammonia		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
(2-methoxymethylethoxy)propanol	< 1 day(s)	Method not given	Rapidly photodegradable	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh	Method	Evaluation	Remark
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	water			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
(2-methoxymethylethoxy)propanol		Oxygen depletion	75 % in 28 day(s)	OECD 301F	Readily biodegradable
Rosin, fumarated, polymer with glycerol, ammonium salt					No data available
tetraamminezinc(2+) carbonate					Not applicable (inorganic substance)
ammonia					Not applicable (inorganic substance)
1,2-benzisothiazol-3(2H)-one	Adapted activated sludge	CO ₂ production	62% in 4 day(s)	OECD 301C	Not readily biodegradable.
2-methyl-2H-isothiazol-3-one				Other	Readily biodegradable
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
1,2-benzisothiazol-3(2H)-one	Sewage treatment plant simulation	Primary degradation	> 90%	OECD 303A	Biodegradable
2-methyl-2H-isothiazol-3-one	Surface water (fresh)	Mineralisation rate	> 50 % in 4 day(s)	OECD 309	Biodegradable
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
(2-methoxymethylethoxy)propanol	1.01	Method not given	Low potential for bioaccumulation	
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available			
tetraamminezinc(2+) carbonate	No data available			
ammonia	0.23	Method not given	No bioaccumulation expected	
1,2-benzisothiazol-3(2H)-one	0.7	OECD 107	No bioaccumulation expected	
2-methyl-2H-isothiazol-3-one	-0.32	OECD 107	No bioaccumulation expected	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-0.71 - +0.75	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
(2-methoxymethylethoxy)propanol	No data available				
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available				
tetraamminezinc(2+) carbonate	No data available				
ammonia	No data available				

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1,2-benzisothiazol-3(2H)-one	6.95		OECD 305		
2-methyl-2H-isothiazol-3-one	3.16		OECD 305		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
(2-methoxymethylethoxy)propanol	No data available				High potential for mobility in soil
Rosin, fumarated, polymer with glycerol, ammonium salt	No data available				
tetraamminezinc(2+) carbonate	No data available				
ammonia	No data available				Low mobility in soil
1,2-benzisothiazol-3(2H)-one	No data available				
2-methyl-2H-isothiazol-3-one	No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue:

16 03 05* - organic wastes containing dangerous substances.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number or ID number:** Non-dangerous goods**14.2 UN proper shipping name:** Non-dangerous goods**14.3 Transport hazard class(es):** Non-dangerous goods**14.4 Packing group:** Non-dangerous goods**14.5 Environmental hazards:** Non-dangerous goods**14.6 Special precautions for user:** Non-dangerous goods**14.7 Maritime transport in bulk according to IMO instruments:** Non-dangerous goods**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)

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- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Comah - classification: Not classified

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H310 - Fatal in contact with skin.
- 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.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H402 - Harmful to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H413 - May cause long lasting harmful effects to aquatic life.
- EUH071 - Corrosive to the respiratory tract.

End of Safety Data Sheet