



Room Care R4

Revision: 2022-03-13

Version: 06.1

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

1.1 Product identifier

Trade name: Room Care R4

UFI: 4C45-50MU-200E-E00H

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

Product use: Furniture polish.
For professional use only.

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

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_10_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, 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@diversey.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

Aquatic Chronic 3 (H412)

2.2 Label elements

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone)

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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	923-037-2	-	01-2119471991-29	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) EUH066 Aquatic Chronic 2 (H411)		3-10

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polydimethylsiloxane	[4]	63148-62-9	[4]	Not classified as hazardous	3-10
white mineral oil (petroleum)	232-455-8	8042-47-5	01-2119487078-27	Asp. Tox. 1 (H304)	3-10
Alcohols, C12-14, ethoxylated	500-213-3	68439-50-9	01-2119487984-16	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	0.1-1
1,2-benzisothiazol-3(2H)-one	220-120-9	2634-33-5	[6]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	0.01-0.1
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	[6]	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=10 (H400) Aquatic Chronic 1 (H410)	< 0.01

Specific concentration limits

- 1,2-benzisothiazol-3(2H)-one:
- Skin Sens. 1 (H317) \geq 0.05%
- 2-methyl-2H-isothiazol-3-one:
- Skin Sens. 1 (H317) \geq 0.0015%

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

ATE, if available, are listed in section 11.

[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.

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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, sawdust). 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. Do not breathe spray. 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:

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 effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	-	-	-	-
polydimethylsiloxane	-	-	-	-
white mineral oil (petroleum)	-	-	-	40
Alcohols, C12-14, ethoxylated	-	-	-	25
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-

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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	-	-	-	-
polydimethylsiloxane	-	-	-	-
white mineral oil (petroleum)	No data available	-	No data available	220
Alcohols, C12-14, ethoxylated	No data available	-	No data available	2080
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-

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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	-	-	?	-

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polydimethylsiloxane	-	-	-	-
white mineral oil (petroleum)	No data available	-	No data available	-
Alcohols, C12-14, ethoxylated	No data available	-	No data available	1250
1,2-benzisothiazol-3(2H)-one	-	-	?	-
2-methyl-2H-isothiazol-3-one	-	-	?	-

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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	-	-	-	-
polydimethylsiloxane	-	-	-	-
white mineral oil (petroleum)	-	-	-	160
Alcohols, C12-14, ethoxylated	-	-	-	294
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-

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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	-	-	-	-
polydimethylsiloxane	-	-	-	-
white mineral oil (petroleum)	-	-	-	35
Alcohols, C12-14, ethoxylated	-	-	25	87
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-

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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	-	-	-	-
polydimethylsiloxane	-	-	-	-
white mineral oil (petroleum)	-	-	-	-
Alcohols, C12-14, ethoxylated	0.074	0.007	0.004	10000
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	-	-	-	-
polydimethylsiloxane	-	-	-	-
white mineral oil (petroleum)	-	-	-	-
Alcohols, C12-14, ethoxylated	66.67	6.66	1	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-
2-methyl-2H-isothiazol-3-one	-	-	-	-

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: Provide a good standard of general ventilation.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. 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
Manual application by brushing, wiping or mopping	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Trigger spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

Personal protective equipment

Eye / face protection:

Safety glasses are not normally required. However, their use is recommended in those cases where

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Hand protection:	splashes may occur when handling the product (EN 166).
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions. Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised.

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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	140-200		
polydimethylsiloxane	> 100	Method not given	
white mineral oil (petroleum)	> 315	Method not given	
Alcohols, C12-14, ethoxylated	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		

	Method / remark
Flammability (solid, gas): Not applicable to liquids	
Flammability (liquid): Not flammable.	
Flash point (°C): > 61 °C	closed cup
Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	
Lower and upper explosion limit/flammability limit (%): Not determined	See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	0.6	7

	Method / remark
Autoignition temperature: Not determined	
Decomposition temperature: Not applicable.	
pH: ≈ 5 (neat)	ISO 4316
Kinematic viscosity: <> 20.6 mm ² /s (40 °C)	
Solubility in / Miscibility with Water: Fully miscible	

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Insoluble		
polydimethylsiloxane	No data available		
white mineral oil (petroleum)	Insoluble	Method not given	
Alcohols, C12-14, ethoxylated	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	200	Non guideline test	
polydimethylsiloxane	No data available		

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white mineral oil (petroleum)	< 1.3	Method not given	37.8
Alcohols, C12-14, ethoxylated	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		

Relative density: ≈ 0.96 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

Method / remark

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.

Oxidising properties: Not oxidising.

Corrosion to metals: Not corrosive

Weight of evidence

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 toxicological effects**

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 (mg/kg)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	LD ₅₀	> 5000	Rat	OECD 401 (EU B.1) Read across		Not established
polydimethylsiloxane		> 4800				Not established
white mineral oil (petroleum)	LD ₅₀	> 5000	Rat	OECD 401 (EU B.1)		Not established
Alcohols, C12-14, ethoxylated	LD ₅₀	> 2000	Rat	OECD 401 (EU B.1)		Not established
1,2-benzisothiazol-3(2H)-one	LD ₅₀	> 2000	Rat			3.8e+006
2-methyl-2H-isothiazol-3-one	LD ₅₀	120	Rat	OECD 401 (EU B.1)		1.6e+007

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	LD ₅₀	> 5000	Rabbit	OECD 402 (EU B.3) Read across		Not established

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polydimethylsiloxane		No data available				Not established
white mineral oil (petroleum)	LD ₅₀	> 2000	Rabbit	OECD 402 (EU B.3)		Not established
Alcohols, C12-14, ethoxylated	LD ₅₀	> 3000		Method not given		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	4e+007

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	LC ₅₀	> 5000	Rat	OECD 403 (EU B.2) Read across	8
polydimethylsiloxane		No data available			
white mineral oil (petroleum)	LC ₅₀	> 5	Rat	OECD 403 (EU B.2)	4
Alcohols, C12-14, ethoxylated	LC ₅₀	> 1600 (vapour) No mortality observed		Method not given	
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

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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not established	Not established	Not established	Not established
polydimethylsiloxane	Not established	Not established	Not established	Not established
white mineral oil (petroleum)	Not established	Not established	Not established	Not established
Alcohols, C12-14, ethoxylated	Not established	Not established	Not established	Not established
1,2-benzisothiazol-3(2H)-one	Not established	Not established	Not established	Not established
2-methyl-2H-isothiazol-3-one	Not established	18000	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not irritant	Rabbit	OECD 404 (EU B.4) Read across	
polydimethylsiloxane	No data available			
white mineral oil (petroleum)	Not irritant			
Alcohols, C12-14, ethoxylated	Not irritant			
1,2-benzisothiazol-3(2H)-one	Corrosive		Method not given	
2-methyl-2H-isothiazol-3-one	Corrosive			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not corrosive or irritant		OECD 405 (EU B.5) Read across	
polydimethylsiloxane	No data available			
white mineral oil (petroleum)	Not corrosive or irritant			
Alcohols, C12-14, ethoxylated	Severe damage		Weight of evidence	
1,2-benzisothiazol-3(2H)-one	Severe damage		Method not given	
2-methyl-2H-isothiazol-3-one	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	No data available			
polydimethylsiloxane	No data available			
white mineral oil (petroleum)	No data available			
Alcohols, C12-14, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			
2-methyl-2H-isothiazol-3-one	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not sensitising		OECD 406 (EU B.6) / Buehler test OECD 406 (EU B.6) / GPMT	

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polydimethylsiloxane	No data available			
white mineral oil (petroleum)	Not sensitising			
Alcohols, C12-14, ethoxylated	Not sensitising	Guinea pig	OECD 406 (EU B.6)	
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		
2-methyl-2H-isothiazol-3-one	Sensitising	Guinea pig		

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	No data available			
polydimethylsiloxane	No data available			
white mineral oil (petroleum)	No data available			
Alcohols, C12-14, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			
2-methyl-2H-isothiazol-3-one	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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	No data available		No data available	
polydimethylsiloxane	No data available		No data available	
white mineral oil (petroleum)	No data available		No data available	
Alcohols, C12-14, ethoxylated	No data available		No data available	
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	

Carcinogenicity

Ingredient(s)	Effect
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	No data available
polydimethylsiloxane	No data available
white mineral oil (petroleum)	No data available
Alcohols, C12-14, ethoxylated	No data available
1,2-benzisothiazol-3(2H)-one	No data available
2-methyl-2H-isothiazol-3-one	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
hydrocarbons, C10-C12, isoalkanes, <2% aromatics			No data available				
polydimethylsiloxane			No data available				
white mineral oil (petroleum)			No data available				
Alcohols, C12-14, ethoxylated			No data available				
1,2-benzisothiazol-3(2H)-one			No data available				
2-methyl-2H-isothiazol-3-one			No data available				

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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available		Read across		No adverse effects observed
polydimethylsiloxane		No data available				
white mineral oil (petroleum)		No data available				
Alcohols, C12-14, ethoxylated		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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Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available				
polydimethylsiloxane		No data available				
white mineral oil (petroleum)		No data available				
Alcohols, C12-14, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available		Read across		No adverse effects observed
polydimethylsiloxane		No data available				
white mineral oil (petroleum)		No data available				
Alcohols, C12-14, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics			No data available					
polydimethylsiloxane			No data available					
white mineral oil (petroleum)			No data available					
Alcohols, C12-14, ethoxylated			No data available					
1,2-benzisothiazol-3(2H)-one			No data available					
2-methyl-2H-isothiazol-3-one			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not applicable
polydimethylsiloxane	No data available
white mineral oil (petroleum)	No data available
Alcohols, C12-14, ethoxylated	No data available
1,2-benzisothiazol-3(2H)-one	No data available
2-methyl-2H-isothiazol-3-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not applicable
polydimethylsiloxane	No data available
white mineral oil (petroleum)	No data available
Alcohols, C12-14, ethoxylated	No data available
1,2-benzisothiazol-3(2H)-one	No data available
2-methyl-2H-isothiazol-3-one	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

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)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available			
polydimethylsiloxane	LC ₅₀	> 100			
white mineral oil (petroleum)		No data available			
Alcohols, C12-14, ethoxylated		No data available			
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		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available			
polydimethylsiloxane	EC ₅₀	> 100	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
white mineral oil (petroleum)		No data available			
Alcohols, C12-14, ethoxylated		No data available			
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		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available			
polydimethylsiloxane	EC ₅₀	> 100000		Method not given	72
white mineral oil (petroleum)		No data available			
Alcohols, C12-14, ethoxylated		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		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available			
polydimethylsiloxane		No data available			
white mineral oil (petroleum)		No data available			
Alcohols, C12-14, ethoxylated		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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Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available			
polydimethylsiloxane		No data available			
white mineral oil (petroleum)		No data available			
Alcohols, C12-14, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one	EC ₂₀	3.3	Activated sludge	OECD 209	3 hour(s)
2-methyl-2H-isothiazol-3-one	EC ₂₀	2.8	Activated sludge	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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available				
polydimethylsiloxane		No data available				
white mineral oil (petroleum)		No data available				
Alcohols, C12-14, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available				
polydimethylsiloxane		No data available				
white mineral oil (petroleum)		No data available				
Alcohols, C12-14, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		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
hydrocarbons, C10-C12, isoalkanes, <2% aromatics		No data available				
polydimethylsiloxane		No data available				
white mineral oil (petroleum)		No data available				
Alcohols, C12-14, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				

Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
hydrocarbons, C10-C12, isoalkanes, <2% aromatics					Inherently biodegradable.
polydimethylsiloxane			97% in 28 day(s)		Inherently biodegradable.
white mineral oil (petroleum)				OECD 301F	Not readily biodegradable.
Alcohols, C12-14, ethoxylated	Activated sludge, aerobe	Oxygen depletion	95 % in 28 day(s)	OECD 301F	Readily biodegradable
1,2-benzisothiazol-3(2H)-one				Weight of evidence	Not readily biodegradable.
2-methyl-2H-isothiazol-3-one					Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if 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

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	No data available			
polydimethylsiloxane	No data available		No bioaccumulation expected	
white mineral oil (petroleum)	No data available			
Alcohols, C12-14, ethoxylated	No data available			
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	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	No data available				
polydimethylsiloxane	No data available			No bioaccumulation expected	
white mineral oil (petroleum)	No data available				
Alcohols, C12-14, ethoxylated	No data available				
1,2-benzisothiazol-3(2H)-one	6.95		OECD 305		
2-methyl-2H-isothiazol-3-one	3.16		OECD 305		

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
hydrocarbons, C10-C12, isoalkanes, <2% aromatics	No data available				
polydimethylsiloxane	No data available				
white mineral oil (petroleum)	No data available				
Alcohols, C12-14, ethoxylated	No data available				
1,2-benzisothiazol-3(2H)-one	No data available				

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2-methyl-2H-isothiazol-3-one	No data available			
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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:

20 01 29* - detergents 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:****14.2 UN proper shipping name:****14.3 Transport hazard class(es):****14.4 Packing group:****14.5 Environmental hazards:****14.6 Special precautions for user:****14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:****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)
- 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

SDS code: MSDS4767

Version: 06.1

Revision: 2022-03-13

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 3, 8, 16, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No

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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.

Full text of the H and EUH phrases mentioned in section 3:

- H226 - Flammable liquid and vapour.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H330 - Fatal if inhaled.
- 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.
- EUH066 - Repeated exposure may cause skin dryness or cracking.

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

End of Safety Data Sheet