

**Trade name:** Felgenblitz säurefrei**Product no.:** 218999**Current version :** 2.0.0, issued: 18.07.2022**Replaced version:** 2.0.0, issued: 30.06.2022**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

Cleaner

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H302

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Sens. 1; H317

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05



GHS07

**Signal word**

Danger

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p-mentha-1,4(8)-diene  
Citronellol  
(R)-p-mentha-1,8-diene  
alpha-hexylcinnamaldehyde**Hazard statement(s)**H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.**Precautionary statement(s)**P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P261 Avoid breathing vapours/spray.  
P280 Wear protective gloves/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P501 Dispose of contents/container to a facility in accordance with local and national regulations.**Supplemental label elements**Regulation (EC) No 648/2004 on detergents (Annex VII):  
5-15% anionic surfactants  
<5% non-ionic surfactants  
Perfumings  
LIMONENE  
CITRONELLOL  
HEXYL CINNAMAL**2.3 Other hazards**PBT assessment  
One or more components of this product are classified as PBT.  
vPvB assessment  
One or more components of this product are classified as vPvB.**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>ammonium-mercaptoacetate</b>			
	5421-46-5 226-540-9 - 01-2119531489-31	Met. Corr. 1; H290 Acute Tox. 3; H301 Skin Sens. 1; H317	>= 10.00 - < 25.00	wt%
2	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>			
	68891-38-3 500-234-8 - 01-2119488639-16	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	< 5.00	wt%
3	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>			

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	68515-73-1 500-220-1 - 01-2119488530-36	Eye Dam. 1; H318	< 2.50	wt%
4	<b>p-mentha-1,4(8)-diene</b>			
	586-62-9 209-578-0 - 01-2119982325-32	Asp. Tox. 1; H304 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.50	wt%
5	<b>Citronellol</b>			
	106-22-9 203-375-0 - 01-2119453995-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0.50	wt%
6	<b>(R)-p-mentha-1,8-diene</b>			
	5989-27-5 227-813-5 601-029-00-7 01-2119529223-47	Aquatic Acute 1; H400 Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	< 0.50	wt%
7	<b>alpha-hexylcinnamaldehyde</b>			
	101-86-0 202-983-3 - 01-2119533092-50	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 5% Eye Dam. 1; H318: C >= 10%	-	-

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
1	71 mg/kg bodyweight		
4	4,40 mg/kg bodyweight		

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

**After skin contact**

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Sulphur oxides (S<sub>x</sub>O<sub>y</sub>)**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear full protective suit.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

**Incompatible products**

Substances to be avoided, see section 10.

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**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ammonium-mercaptoacetate			5421-46-5 226-540-9	
	dermal	Long term (chronic)	systemic	2.06	mg/kg/day
	dermal	Long term (chronic)	local	0.004	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	1.41	mg/m <sup>3</sup>
2	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			68891-38-3 500-234-8	
	dermal	Long term (chronic)	systemic	2750	mg/kg/day
	dermal	Long term (chronic)	local	132	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	175	mg/m <sup>3</sup>
3	D-Glucopyranose, oligomeric, decyl octyl glycosides			68515-73-1 500-220-1	
	dermal	Long term (chronic)	systemic	595000	mg/kg/day
	inhalative	Long term (chronic)	systemic	420	mg/m <sup>3</sup>
4	p-mentha-1,4(8)-diene			586-62-9 209-578-0	
	dermal	Long term (chronic)	systemic	0.52	mg/kg/day
	dermal	Long term (chronic)	local	44	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	3.6	mg/m <sup>3</sup>
5	(R)-p-mentha-1,8-diene			5989-27-5 227-813-5	
	dermal	Long term (chronic)	systemic	9.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	66.7	mg/m <sup>3</sup>
6	alpha-hexylcinnamaldehyde			101-86-0 202-983-3	
	dermal	Long term (chronic)	systemic	18.2	mg/kg/day
	dermal	Long term (chronic)	local	525	µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	525	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.078	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	6.28	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ammonium-mercaptoacetate			5421-46-5 226-540-9	
	dermal	Long term (chronic)	systemic	0.9	mg/kg/day
2	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			68891-38-3 500-234-8	
	oral	Long term (chronic)	systemic	15	mg/kg/day
	dermal	Long term (chronic)	systemic	1650	mg/kg/day
	dermal	Long term (chronic)	local	79	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	52	mg/m <sup>3</sup>
3	D-Glucopyranose, oligomeric, decyl octyl glycosides			68515-73-1 500-220-1	
	oral	Long term (chronic)	systemic	35.7	mg/kg/day

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	dermal	Long term (chronic)	systemic	357000	mg/kg/day
	inhalative	Long term (chronic)	systemic	124	mg/m <sup>3</sup>
4	<b>p-mentha-1,4(8)-diene</b>			<b>586-62-9</b> <b>209-578-0</b>	
	oral	Long term (chronic)	systemic	0.26	mg/kg/day
	dermal	Long term (chronic)	systemic	0.26	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.9	mg/m <sup>3</sup>
5	<b>(R)-p-mentha-1,8-diene</b>			<b>5989-27-5</b> <b>227-813-5</b>	
	oral	Long term (chronic)	systemic	4.8	mg/kg/day
	dermal	Long term (chronic)	systemic	4.8	mg/kg/day
	inhalative	Long term (chronic)	systemic	16.6	mg/m <sup>3</sup>
6	<b>alpha-hexylcinnamaldehyde</b>			<b>101-86-0</b> <b>202-983-3</b>	
	oral	Long term (chronic)	systemic	0.056	mg/kg/day
	dermal	Long term (chronic)	systemic	9.11	mg/kg/day
	dermal	Long term (chronic)	local	78.7	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.019	mg/m <sup>3</sup>
	inhalative	Short term (acute)	local	4.71	mg/m <sup>3</sup>

## PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	<b>ammonium-mercaptopacetate</b>		<b>5421-46-5</b> <b>226-540-9</b>
	water	fresh water	38 µg/L
	water	marine water	3.8 µg/L
	sewage treatment plant	-	3.2 mg/L
2	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>		<b>68891-38-3</b> <b>500-234-8</b>
	water	fresh water	0.24 mg/L
	water	marine water	0.024 mg/L
	water	Aqua intermittent	0.071 mg/L
	water	fresh water sediment	0.917 mg/kg dry weight
	water	marine water sediment	0.092 mg/kg dry weight
	soil	-	7.5 mg/kg dry weight
	sewage treatment plant	-	10 g/L
3	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>		<b>68515-73-1</b> <b>500-220-1</b>
	water	fresh water	0.176 mg/L
	water	marine water	0.0176 mg/L
	water	Aqua intermittent	0.27 mg/L
	water	fresh water sediment	1.516 mg/kg dry weight
	water	marine water sediment	0.152 mg/kg dry weight
	soil	-	0.654 mg/kg dry weight
	sewage treatment plant	-	560 mg/L
	secondary poisoning	-	111.11 mg/kg food
4	<b>p-mentha-1,4(8)-diene</b>		<b>586-62-9</b> <b>209-578-0</b>
	water	fresh water	0.634 µg/L
	water	marine water	0.063 µg/L
	water	Aqua intermittent	6.34 µg/L

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	water	fresh water sediment	0.147	mg/kg dry weight
	water	marine water sediment	0.0147	mg/kg dry weight
	soil	-	0.0291	mg/kg dry weight
	sewage treatment plant	-	0.2	mg/L
	secondary poisoning	-	10.31	mg/kg food
5	<b>(R)-p-mentha-1,8-diene</b>		<b>5989-27-5 227-813-5</b>	
	water	fresh water	14	µg/L
	water	marine water	1.4	µg/L
	water	fresh water sediment	3.85	mg/kg dry weight
	water	marine water sediment	0.385	mg/kg dry weight
	soil	-	0.763	mg/kg dry weight
	sewage treatment plant	-	1.8	mg/L
	secondary poisoning	-	133	mg/kg food
6	<b>alpha-hexylcinnamaldehyde</b>		<b>101-86-0 202-983-3</b>	
	water	fresh water	0.001	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	3.2	mg/kg dry weight
	water	marine water sediment	0.064	mg/kg dry weight
	soil	-	0.398	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	6.6	mg/kg food

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl		
Appropriate Material	nitrile		
Material thickness	>	0.5	mm
Breakthrough time	>	480	min

#### Other

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Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form/Colour</b>	
liquid	
reddish	
<b>Odour</b>	
characteristic	
<b>pH value</b>	
Value	7
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Not applicable	
<b>Ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	
not oxidizing	
<b>Explosive properties</b>	
The product does not have explosive properties.	
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
No data available	
<b>Upper explosion limit</b>	
No data available	
<b>Vapour pressure</b>	
No data available	
<b>Relative vapour density</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	1.06 g/cm <sup>3</sup>
Reference temperature	20 °C
<b>Solubility in water</b>	
Comments	miscible



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Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	alpha-hexylcinnamaldehyde	101-86-0	202-983-3
log Pow		appr.	5.3
Reference temperature			24 °C
Method		OECD 117	
Source		ECHA	
Kinematic viscosity			
No data available			
Particle characteristics			
No data available			

**9.2 Other information**

Other information
No data available.

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

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

strong bases; strong acids; strong oxidizing agents

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

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

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Felgenblitz säurefrei
ATE (Mixture)	540.54 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	ammonium-mercaptoacetate	5421-46-5	226-540-9
LD50		35 - 142	mg/kg bodyweight
Species		rat	
Method		OECD 423	
Source		ECHA	
2	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
LD50			4100 mg/kg bodyweight
Species		rat	

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Method	OECD 401		
Source	ECHA		
<b>3</b>	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>	<b>68515-73-1</b>	<b>500-220-1</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
<b>4</b>	<b>p-mentha-1,4(8)-diene</b>	<b>586-62-9</b>	<b>209-578-0</b>
LD50	>	4.39	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

<b>Acute dermal toxicity</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ammonium-mercaptoacetate</b>	<b>5421-46-5</b>	<b>226-540-9</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
<b>3</b>	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>	<b>68515-73-1</b>	<b>500-220-1</b>
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
<b>4</b>	<b>p-mentha-1,4(8)-diene</b>	<b>586-62-9</b>	<b>209-578-0</b>
LD50	>	4300	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

<b>Acute inhalational toxicity</b>	
No data available	

<b>Skin corrosion/irritation</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ammonium-mercaptoacetate</b>	<b>5421-46-5</b>	<b>226-540-9</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
<b>3</b>	<b>p-mentha-1,4(8)-diene</b>	<b>586-62-9</b>	<b>209-578-0</b>
Species	Human		
Method	OECD 439		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>4</b>	<b>(R)-p-mentha-1,8-diene</b>	<b>5989-27-5</b>	<b>227-813-5</b>
Duration of exposure		4	h
Method	OECD 404		

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Source	ECHA
Evaluation	non-irritant
Evaluation/classification	Based on available data, the classification criteria are met.

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	ammonium-mercaptoacetate	5421-46-5	226-540-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	low-irritant		
2	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	strongly irritant		
3	D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	500-220-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irreversible effects on the eye		
4	p-mentha-1,4(8)-diene	586-62-9	209-578-0
Duration of exposure		24	h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	ammonium-mercaptoacetate	5421-46-5	226-540-9
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
2	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
3	D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	500-220-1
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
4	p-mentha-1,4(8)-diene	586-62-9	209-578-0
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
5	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
Route of exposure	Skin		
Species	mouse		

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Method	OECD 429
Source	ECHA
Evaluation	sensitizing
<b>6</b>	<b>alpha-hexylcinnamaldehyde</b> <b>101-86-0</b> <b>202-983-3</b>
Route of exposure	Skin
Species	mouse
Method	OECD 429
Source	ECHA
Evaluation	strongly sensitizing

Germ cell mutagenicity		
No	Substance name	EC no.
<b>1</b>	<b>ammonium-mercaptoacetate</b> <b>5421-46-5</b>	<b>226-540-9</b>
Type of examination	in vitro gene mutation study in bacteria	
Species	Salmonella typhimurium	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> <b>68891-38-3</b>	<b>500-234-8</b>
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>3</b>	<b>p-mentha-1,4(8)-diene</b> <b>586-62-9</b>	<b>209-578-0</b>
Type of examination	in vitro gene mutation study in bacteria	
Species	S. typhimurium: TA97, TA98, TA 100, TA 102, TA 1535	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>4</b>	<b>(R)-p-mentha-1,8-diene</b> <b>5989-27-5</b>	<b>227-813-5</b>
Type of examination	Chromosome aberration test	
Species	Chinese Hamster Ovary (CHO-K1) cells	
Method	OECD 473	
Source	ECHA	

Reproduction toxicity		
No	Substance name	EC no.
<b>1</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> <b>68891-38-3</b>	<b>500-234-8</b>
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>2</b>	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b> <b>68515-73-1</b>	<b>500-220-1</b>
NOAEL		
Species	rat	
Method	OECD 421	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>3</b>	<b>p-mentha-1,4(8)-diene</b> <b>586-62-9</b>	<b>209-578-0</b>
Route of exposure	oral	
NOAEL	356	mg/kg bw/d
Species	rat	
Method	OECD 422	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

Carcinogenicity		
No	Substance name	EC no.
<b>1</b>	<b>(R)-p-mentha-1,8-diene</b> <b>5989-27-5</b>	<b>227-813-5</b>
Route of exposure	oral	
Duration of exposure	103	week/s
Species	rat	
Method	OECD 451	
Source	ECHA	

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Evaluation/classification | Based on available data, the classification criteria are not met.

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS no.	EC no.
1	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
Route of exposure		oral	
NOAEL		1650	mg/kg bw/d
Species		mouse	
Method		OECD 407	
Source		ECHA	

**Aspiration hazard**

No data available

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

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	ammonium-mercaptoacetate	5421-46-5	226-540-9
LC50		>	100 mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
2	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
LC50		7.1	mg/l
Duration of exposure		96	h
Species		Danio rerio	
Method		OECD 203	
Source		ECHA	
3	D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	500-220-1
LC50		126	mg/l
Duration of exposure		96	h
Species		Danio rerio	
Method		OECD 203	
Source		ECHA	
4	p-mentha-1,4(8)-diene	586-62-9	209-578-0
LC50		0.805	mg/l
Duration of exposure		96	h
Species		Danio rerio	
Method		OECD 203	
Source		ECHA	
5	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
LC50		0.72	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		OECD 203	
Source		ECHA	
6	alpha-hexylcinnamaldehyde	101-86-0	202-983-3

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LC50	1.7	mg/l
Duration of exposure	96	h
Species	Pimephales promelas	
Method	OECD 203	
Source	ECHA	

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>	<b>68515-73-1</b>	<b>500-220-1</b>
NOEC	1.8	mg/l	
Duration of exposure	28	day(s)	
Species	Brachydanio rerio		
Method	OECD 204		
Source	ECHA		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
EC50	7.4	mg/l	
Duration of exposure	48	h	
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>	<b>68515-73-1</b>	<b>500-220-1</b>
EC50	>	100	mg/l
Duration of exposure	48	h	
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	<b>p-mentha-1,4(8)-diene</b>	<b>586-62-9</b>	<b>209-578-0</b>
EC50	0.634	mg/l	
Duration of exposure	48	h	
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
4	<b>(R)-p-mentha-1,8-diene</b>	<b>5989-27-5</b>	<b>227-813-5</b>
EC50	0.36	mg/l	
Duration of exposure	48	h	
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
5	<b>alpha-hexylcinnamaldehyde</b>	<b>101-86-0</b>	<b>202-983-3</b>
EC50	0.36	- 0.59	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>	<b>68515-73-1</b>	<b>500-220-1</b>
NOEC	1	mg/l	
Duration of exposure	21	day(s)	
Species	Daphnia magna		
Method	OECD 211		
Source	OECD 202		
2	<b>alpha-hexylcinnamaldehyde</b>	<b>101-86-0</b>	<b>202-983-3</b>
NOEC	63	µg/l	
Duration of exposure	21	day(s)	
Species	Daphnia magna		

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Method	OECD 211
Source	ECHA

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
ErC50		27.7	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	500-220-1
EC50		27.22	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Source	ECHA		
3	p-mentha-1,4(8)-diene	586-62-9	209-578-0
EC50		0.692	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
4	alpha-hexylcinnamaldehyde	101-86-0	202-983-3
EC50	>	0.065	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
NOEC		0.95	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
EC50	>	10000	mg/l
Duration of exposure		16	h
Species	Pseudomonas putida		
Method	DIN 38412 T.8		
Source	ECHA		
2	D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	500-220-1
EC50	>	560	mg/l
Duration of exposure		6	h
Species	Pseudomonas putida		
Method	Bringmann and Kuehn (1977)		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
Type	DOC decrease		
Value		100	%
Duration		14	day(s)

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Source Evaluation	ECHA readily biodegradable		
<b>2</b>	<b>D-Glucopyranose, oligomeric, decyl octyl glycosides</b>	<b>68515-73-1</b>	<b>500-220-1</b>
Type	DOC decrease		
Value		100	%
Duration		28	day(s)
Method	OECD 301 E		
Source Evaluation	ECHA readily biodegradable		
<b>3</b>	<b>p-mentha-1,4(8)-diene</b>	<b>586-62-9</b>	<b>209-578-0</b>
Value		81	%
Duration		28	day(s)
Method	OECD 301 D		
Source Evaluation	ECHA		
<b>4</b>	<b>alpha-hexylcinnamaldehyde</b>	<b>101-86-0</b>	<b>202-983-3</b>
Value	appr.	97	%
Duration		28	day(s)
Method	OECD 301 F		
Source Evaluation	ECHA		

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>alpha-hexylcinnamaldehyde</b>	<b>101-86-0</b>	<b>202-983-3</b>
log Pow	appr.	5.3	
Reference temperature		24	°C
Method	OECD 117		
Source Evaluation	ECHA		

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	One or more components of this product are classified as PBT.
vPvB assessment	One or more components of this product are classified as vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.



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Class	8
Classification code	C9
Packing group	III
Hazard identification no.	80
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	ammonium-mercaptopacetate
Tunnel restriction code	E
Label	8

**14.2 Transport IMDG**

Class	8
Packing group	III
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	ammonium-mercaptopacetate
EmS	F-A, S-B
Label	8

**14.3 Transport ICAO-TI / IATA**

Class	8
Packing group	III
UN number	UN1760
Proper shipping name	Corrosive liquid, n.o.s.
Technical name	ammonium-mercaptopacetate
Label	8

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	75
2	sodium hydroxide	1310-73-2	215-185-5	75

#### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

#### Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.  
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.  
The surfactants contained in this product comply with the DetVO 648/2004/EC.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
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.

#### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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