

**Trade name:** Duftstoff Himbeere**Product no.:** 175999**Current version :** 1.0.0, issued: 29.10.2020**Replaced version:** -, issued: -**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

Fragrances

**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; H332

Eye Irrit. 2; H319

Flam. Liq. 3; H226

Skin Irrit. 2; H315

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**

GHS02



GHS07

**Signal word**

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Warning

**Hazardous component(s) to be indicated on label:**

2-butoxyethanol

linalool

linalyl acetate

ethyl 2,3-epoxy-3-phenylbutyrate

citral

**Hazard statement(s)**

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

**Precautionary statement(s)**

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261

Avoid breathing vapours/spray.

P280

Wear protective gloves/protective clothing/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.

P312

Call a POISON CENTER/doctor if you feel unwell.

P370+P378

In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**2.3 Other hazards**

PBT assessment

According to the information provided in the supply chain, the mixture does not contain &gt; 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain &gt; 0.1% of a substance that is considered to be 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>2-butoxyethanol</b>		
	111-76-2	Acute Tox. 4; H302	≥ 50.00 - < 70.00 wt%
	203-905-0	Acute Tox. 4; H312	
	603-014-00-0	Acute Tox. 4; H332	
	01-2119475108-36	Eye Irrit. 2; H319	
		Skin Irrit. 2; H315	
2	<b>isopentyl acetate</b>		
	123-92-2	Flam. Liq. 3; H226	≥ 10.00 - < 25.00 wt%
	204-662-3	EUH066	
	607-130-00-2		
	01-2119548408-32		

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3	<b>benzyl acetate</b>			
	140-11-4 205-399-7 - 01-2119638272-42	Aquatic Chronic 3; H412	>= 5.00 - < 10.00	wt%
4	<b>linalool</b>			
	78-70-6 201-134-4 603-235-00-2 01-2119474016-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 2.50	wt%
5	<b>allyl-heptanoate</b>			
	142-19-8 205-527-1 - 01-2119488961-23	Acute Tox. 3; H301 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	< 2.50	wt%
6	<b>linalyl acetate</b>			
	115-95-7 204-116-4 - 01-2119454789-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	< 2.50	wt%
7	<b>ethyl 2,3-epoxy-3-phenylbutyrate</b>			
	77-83-8 201-061-8 - 01-2119967770-28	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 0.50	wt%
8	<b>allyl-hexanoate</b>			
	123-68-2 204-642-4 - 01-2119983573-26	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	< 0.50	wt%
9	<b>citral</b>			
	5392-40-5 226-394-6 605-019-00-3 01-2119462829-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0.50	wt%

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

**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 persisting adverse effects, consult a physician.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. If unconscious place in recovery position and seek medical advice.

**After skin contact**

In case of contact with skin wash off with water.

**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).

**After ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.

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

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No data available.

#### 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**

Water spray jet; Alcohol-resistant foam; Carbon dioxide; Dry chemical extinguisher

**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 monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

### 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. Keep away from ignition sources. Do not inhale vapours.

**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.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

#### 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.

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Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
	<b>2000/39/EC</b>				
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m <sup>3</sup>	50	ppm
	WEL long-term (8-hr TWA reference period)	98	mg/m <sup>3</sup>	20	ppm
	Skin resorption / sensibilisation	Skin			
	<b>List of approved workplace exposure limits (WELs) / EH40</b>				
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m <sup>3</sup>	50	ppm
	WEL long-term (8-hr TWA reference period)	123	mg/m <sup>3</sup>	25	ppm
	Comments	Sk, BMGV			
2	isopentyl acetate	123-92-2		204-662-3	
	<b>2000/39/EC</b>				
	Isopentylacetate				
	WEL short-term (15 min reference period)	540	mg/m <sup>3</sup>	100	ppm
	WEL long-term (8-hr TWA reference period)	270	mg/m <sup>3</sup>	50	ppm
	<b>List of approved workplace exposure limits (WELs) / EH40</b>				
	Pentyl acetates (all isomers)				
	WEL short-term (15 min reference period)	541	mg/m <sup>3</sup>	100	ppm
	WEL long-term (8-hr TWA reference period)	270	mg/m <sup>3</sup>	50	ppm

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	2-butoxyethanol			<b>111-76-2</b> <b>203-905-0</b>	
	dermal	Long term (chronic)	systemic	125.00	mg/kg/day
	dermal	Short term (acut)	systemic	89.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	98.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	1091.00	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	246.00	mg/m <sup>3</sup>
2	isopentyl acetate			<b>123-92-2</b> <b>204-662-3</b>	
	dermal	Long term (chronic)	systemic	2.95	mg/kg/day
	inhalative	Long term (chronic)	systemic	20.8	mg/m <sup>3</sup>
3	linalool			<b>78-70-6</b> <b>201-134-4</b>	
	dermal	Long term (chronic)	systemic	2.5	mg/kg/day
	dermal	Short term (acut)	systemic	5	mg/kg/day
	dermal	Long term (chronic)	local	15	mg/cm <sup>2</sup>

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	dermal	Short term (acut)	local	15	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	2.8	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	16.5	mg/m <sup>3</sup>
4	<b>allyl-heptanoate</b>			<b>142-19-8</b> <b>205-527-1</b>	
	dermal	Long term (chronic)	systemic	0.84	mg/kg/day
	inhalative	Long term (chronic)	systemic	2.97	mg/m <sup>3</sup>
5	<b>allyl-hexanoate</b>			<b>123-68-2</b> <b>204-642-4</b>	
	dermal	Long term (chronic)	systemic	4.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	15	mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>2-butoxyethanol</b>			<b>111-76-2</b> <b>203-905-0</b>	
	oral	Long term (chronic)	systemic	6.30	mg/kg/day
	oral	Short term (acut)	systemic	26.70	mg/kg/day
	dermal	Long term (chronic)	systemic	75.00	mg/kg/day
	dermal	Short term (acut)	systemic	89.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	59.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	426.00	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	147.00	mg/m <sup>3</sup>
2	<b>isopentyl acetate</b>			<b>123-92-2</b> <b>204-662-3</b>	
	oral	Long term (chronic)	systemic	1.47	mg/kg/day
	dermal	Long term (chronic)	systemic	1.47	mg/kg/day
	inhalative	Long term (chronic)	systemic	5.1	mg/m <sup>3</sup>
3	<b>linalool</b>			<b>78-70-6</b> <b>201-134-4</b>	
	oral	Long term (chronic)	systemic	0.2	mg/kg/day
	oral	Short term (acut)	systemic	1.2	mg/kg/day
	dermal	Long term (chronic)	systemic	1.25	mg/kg/day
	dermal	Short term (acut)	systemic	2.5	mg/kg/day
	dermal	Long term (chronic)	local	15	mg/cm <sup>2</sup>
	dermal	Short term (acut)	local	15	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.7	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	4.1	mg/m <sup>3</sup>
4	<b>allyl-heptanoate</b>			<b>142-19-8</b> <b>205-527-1</b>	
	oral	Long term (chronic)	systemic	0.42	mg/kg/day
	dermal	Long term (chronic)	systemic	0.42	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.73	mg/m <sup>3</sup>
5	<b>allyl-hexanoate</b>			<b>123-68-2</b> <b>204-642-4</b>	
	oral	Long term (chronic)	systemic	2.1	mg/kg/day
	dermal	Long term (chronic)	systemic	2.1	mg/kg/day
	inhalative	Long term (chronic)	systemic	3.7	mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	<b>2-butoxyethanol</b>		<b>111-76-2</b> <b>203-905-0</b>	
	water	fresh water	8.80	mg/L
	water	marine water	0.88	mg/L
	water	fresh water sediment	34.60	mg/kg

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	with reference to: dry weight		
	water	marine water sediment	3.46 mg/kg
	water	Aqua intermittent	26.4 mg/L
	soil	-	2.33 mg/kg dry weight
	sewage treatment plant	-	463.00 mg/L
	secondary poisoning	-	0.02 g/kg
2	<b>isopentyl acetate</b>		<b>123-92-2</b> <b>204-662-3</b>
	water	fresh water	0.022 mg/L
	water	marine water	0.0022 mg/L
	water	Aqua intermittent	0.22 mg/L
	sewage treatment plant	-	100 mg/L
3	<b>linalool</b>		<b>78-70-6</b> <b>201-134-4</b>
	water	fresh water	0.2 mg/L
	water	marine water	0.02 mg/L
	water	Aqua intermittent	2 mg/L
	water	fresh water sediment	2.22 mg/kg dry weight
	water	marine water sediment	0.222 mg/kg dry weight
	soil	-	0.327 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
	secondary poisoning	-	7.8 mg/kg food
4	<b>allyl-heptanoate</b>		<b>142-19-8</b> <b>205-527-1</b>
	water	fresh water	0.12 µg/L
	water	marine water	0.012 µg/L
	water	fresh water sediment	0.012 mg/kg dry weight
	water	marine water sediment	0.001 mg/kg dry weight
	soil	-	0.002 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
5	<b>allyl-hexanoate</b>		<b>123-68-2</b> <b>204-642-4</b>
	water	fresh water	0.117 µg/L
	water	marine water	0.012 µg/L
	water	fresh water sediment	4.46 µg/kg
	water	marine water sediment	0.446 µg/kg
	soil	-	0.825 µg/kg
	sewage treatment plant	-	10 mg/L
	secondary poisoning	-	47.56 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. Filter A or environment-independent breathing apparatus.

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Safety glasses with side protection shield (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 rubber		
Material thickness		0.5	mm
Breakthrough time	>	120	min

**Other**

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>Form/Colour</b>			
liquid			
colourless			
<b>Odour</b>			
fruity			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
not determined			
<b>Boiling point / boiling range</b>			
Value	>	35	°C
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	>	40	°C
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
not oxidizing			
<b>Explosive properties</b>			
This product is not explosive. In and after use danger of production of inflammable compounds.			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			



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No data available

**Vapour pressure**

No data available

**Vapour density**

No data available

**Evaporation rate**

No data available

**Relative density**

No data available

**Density**

Value	0.92	g/cm <sup>3</sup>
Reference temperature	20	°C

**Solubility in water**

Comments	miscible
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**Solubility(ies)**

No data available

**Partition coefficient: n-octanol/water**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
	log Pow		0.81
	Reference temperature		25 °C
	Source	ECHA	
2	linalool	78-70-6	201-134-4
	log Pow		2.84
	Reference temperature		20 °C
	Method	OECD 107	
	Source	ECHA	
3	allyl-heptanoate	142-19-8	205-527-1
	log Pow		3.97
	Reference temperature		20 °C
	Source	ECHA	

**Viscosity**

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**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

strong oxidizing agents; light metals

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**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Duftstoff Himbeere
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
LD50		1746	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	isopentyl acetate	123-92-2	204-662-3
LD50		7400	mg/kg bodyweight
Species	rat		
Source	ECHA		
3	linalool	78-70-6	201-134-4
LD50		2790	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
4	allyl-heptanoate	142-19-8	205-527-1
LD50		218	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Duftstoff Himbeere
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
LD50	>	2000	mg/kg bodyweight
Species	guinea pig		
Method	OECD 402		
Source	ECHA		
2	linalool	78-70-6	201-134-4
LD50		5610	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

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3	allyl-heptanoate	142-19-8	205-527-1
LD50		810	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

**Acute inhalational toxicity (result of the ATE calculation for the mixture)**

No	Product Name		
1	Duftstoff Himbeere		
ATE (Mixture)	3.0000	mg/l	
Route of exposure / physical form	Dust/mist		
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.		

**Acute inhalational toxicity**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
ATE		1.5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		

**Skin corrosion/irritation**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Duration of exposure		4	h
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		
2	linalool	78-70-6	201-134-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
3	allyl-heptanoate	142-19-8	205-527-1
Method	440/2008/EC B.46.		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Serious eye damage/irritation**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Duration of exposure		24	h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		
2	linalool	78-70-6	201-134-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
3	allyl-heptanoate	142-19-8	205-527-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Respiratory or skin sensitisation**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0

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Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>2</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
Route of exposure	Skin		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>3</b>	<b>allyl-heptanoate</b>	<b>142-19-8</b>	<b>205-527-1</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No data available			

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Species	rat		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
Source	ECHA		
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	linalool	78-70-6	201-134-4
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard			
No data available			

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
LC50	>	1474	mg/l

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Duration of exposure	96	h
Species	Oncorhynchus mykiss	
Method	OECD 203	
Source	ECHA	
<b>2</b>	<b>isopentyl acetate</b>	<b>123-92-2</b> <b>204-662-3</b>
LC50	22	- 46 mg/l
Duration of exposure	96	h
Species	Danio rerio	
Method	OECD 203	
Source	ECHA	
<b>3</b>	<b>linalool</b>	<b>78-70-6</b> <b>201-134-4</b>
LC50	27.8	mg/l
Duration of exposure	96	h
Species	Oncorhynchus mykiss	
Method	OECD 203	
Source	ECHA	
<b>4</b>	<b>allyl-heptanoate</b>	<b>142-19-8</b> <b>205-527-1</b>
LC50	0.117	mg/l
Duration of exposure	96	h
Species	Danio rerio	
Method	OECD 203	
Source	ECHA	

**Toxicity to fish (chronic)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
NOEC	>	100	mg/l
Duration of exposure		21	day(s)
Species	Danio rerio		
Method	OECD 204		
Source	ECHA		

**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
EC50		1550	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>2</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
EC50		59	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>3</b>	<b>allyl-heptanoate</b>	<b>142-19-8</b>	<b>205-527-1</b>
EC50		0.89	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.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
NOEC		100	mg/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	2-butoxyethanol	111-76-2	203-905-0
EC50		911	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
2	isopentyl acetate	123-92-2	204-662-3
ErC50	>	100	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
3	linalool	78-70-6	201-134-4
ErC50		156.7	mg/l
Duration of exposure		96	h
Species	Desmodesmus subspicatus		
Method	DIN 38412		
Source	ECHA		

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Type	aerobic biodegradation		
Value		90.4	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		
2	linalool	78-70-6	201-134-4
Value	>	64	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
log Pow		0.81	
Reference temperature		25	°C
Source	ECHA		
2	linalool	78-70-6	201-134-4
log Pow		2.84	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		

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3	allyl-heptanoate	142-19-8	205-527-1
log Pow		3.97	
Reference temperature		20	°C
Source	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	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**12.6 Other adverse effects**

No data available.

**12.7 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**

Residuals 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.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1266
Proper shipping name	PERFUMERY PRODUCTS
Tunnel restriction code	D/E
Label	3

**14.2 Transport IMDG**

Class	3
Packing group	III
UN number	UN1266
Proper shipping name	PERFUMERY PRODUCTS
EmS	F-E, S-D

**Trade name:** Duftstoff Himbeere**Product no.:** 175999**Current version :** 1.0.0, issued: 29.10.2020**Replaced version:** -, issued: -**Region:** GB

Label 3

**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	III
UN number	UN1266
Proper shipping name	Perfumery products
Label	3

**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 Transport in bulk according to Annex II of Marpol and the IBC Code**

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, 40
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	P5c
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**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.

**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.



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

EUH066	Repeated exposure may cause skin dryness or cracking.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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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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