Trade name: Duftstoff Apfel

Product no.: 176999

Current version: 1.0.0, issued: 28.10.2020 Replaced version: -, issued: - Region: MT

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

1.1 Product identifier

Trade name

Duftstoff Apfel

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

1.4 Emergency telephone number

No data available.

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H332 Aquatic Chronic 3; H412 Eye Irrit. 2; H319 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



Signal word

Warning

Hazardous component(s) to be indicated on label:

2-butoxyethanol 2,4-dimethylcyclohex-3-ene-1-carbaldehyde citronellyl-formate

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Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing vapours/spray.
P280 Wear protective gloves/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P501 Dispose of contents/container to a facility in accordance with local and national

regulations.

2.3 Other hazards

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

NI.	No Substance name Additional information					
NO	Substance name		Addit	ionai informatio	on	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration		%
	REACH no					
1	2-butoxyethanol					
	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	cis-2-tert-butylcycl	ohexyl acetate				
	20298-69-5	Aquatic Chronic 2; H411	>=	5,00 - <	10,00	wt%
	243-718-1					
	-					
	01-2119970713-33					
3	undecan-4-olide					
	104-67-6	Aquatic Chronic 3; H412	<	2,50		wt%
	203-225-4					
	-					
	01-2119959333-34					
4	allyl-heptanoate					
	142-19-8	Acute Tox. 3; H301	<	2,50		wt%
	205-527-1	Acute Tox. 3; H311				

Trade name: Duftstoff Apfel

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	1		1		
	-	Aquatic Acute 1; H400			
	01-2119488961-23	Aquatic Chronic 3; H412			
5	2,4-dimethylcycloh	ex-3-ene-1-carbaldehyde			
	68039-49-6	Aquatic Chronic 2; H411	<	2,50	wt%
	268-264-1	Skin Irrit. 2; H315			
	_	Skin Sens. 1B; H317			
	_	,			
6	citronellyl-formate				
	105-85-1	Skin Irrit. 2; H315	<	0,50	wt%
	203-338-9	Skin Sens. 1B; H317			
	_	·			
	_				
7	1,3,4,6,7,8-hexahyo	dro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran			
	1222-05-5	Aquatic Acute 1; H400	<	0,50	wt%
	214-946-9	Aquatic Chronic 1; H410		,	
	603-212-00-7	,			
	-				
8	allyl-hexanoate				
	123-68-2	Acute Tox. 3; H301	<	0,50	wt%
	204-642-4	Acute Tox. 3; H311			
	-	Acute Tox. 3; H331			
	01-2119983573-26	Aquatic Acute 1; H400			
		Aquatic Chronic 3; H412			
L	-	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			1

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 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. Do not use mouth-to-mouth or mouth-to-nose resuscitation.

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). Seek medical assistance.

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.

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; Foam; Carbon dioxide; Dry chemical extinguisher

Unsuitable extinguishing media

High power water jet

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5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Run-off water from fire fighting must not be discharged into drains or enter surface 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. 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. In case of entry into waterways, soil or drains, inform the responsible authorities.

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. 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 S	Substance name	CAS no.	EC no.
------	----------------	---------	--------

Trade name: Duftstoff Apfel

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1	1 2-butoxyethanol 111-76-2 203-905-0		-0			
	Occupational Exposure Limit Values (Schedule V, Oc	cupational	Health and S	afety Autho	ority Act)	
	2-Butoxyethanol					
	WEL short-term (15 min reference period)	246	mg/m³	50	ml/m³	
	WEL long-term (8-hr TWA reference period)	98	mg/m³	20	ml/m³	
	Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)					
	2-Butoxyethanol					
	WEL short-term (15 min reference period)	246	mg/m³	50	ppm	
	WEL long-term (8-hr TWA reference period)	98	mg/m³	20	ppm	
	Comments					
	2000/39/EC					
	2-Butoxyethanol					
	WEL short-term (15 min reference period)	246	mg/m³	50	ppm	
	WEL long-term (8-hr TWA reference period)	98	mg/m³	20	ppm	
	Skin resorption / sensibilisation	Skin	•			

DNEL, DMEL and PNEC values

DNEL values (worker)

	Direct values (Worker)							
No	Substance name			CAS / EC r	10			
	Route of exposure	Exposure time	Effect	Value				
1	2-butoxyethanol			111-76-2				
				203-905-0				
	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/m³			
	inhalative	Short term (acut)	systemic	1091,00	mg/m³			
	inhalative	Long term (chronic)	local	246,00	mg/m³			
2	undecan-4-olide	•		104-67-6				
				203-225-4				
	dermal	Long term (chronic)	systemic	5,38	mg/kg/day			
	inhalative	Long term (chronic)	systemic	19	mg/m³			
3	allyl-heptanoate			142-19-8				
				205-527-1				
	dermal	Long term (chronic)	systemic	0,84	mg/kg/day			
	inhalative	Long term (chronic)	systemic	2,97	mg/m³			
4	allyl-hexanoate	•		123-68-2				
				204-642-4				
	dermal	Long term (chronic)	systemic	4,3	mg/kg/day			
	inhalative	Long term (chronic)	systemic	15	mg/m³			

DNEL value (consumer)

No	Substance name	Substance name			0
	Route of exposure	Exposure time	Effect	Value	
1	2-butoxyethanol			111-76-2	
				203-905-0	
	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/m³
	inhalative	Short term (acut)	systemic	426,00	mg/m³
	inhalative	Long term (chronic)	local	147,00	mg/m³
2	undecan-4-olide			104-67-6	
				203-225-4	
	oral	Long term (chronic)	systemic	2,7	mg/kg/day
	dermal	Long term (chronic)	systemic	2,7	mg/kg/day
	inhalative	Long term (chronic)	systemic	4,68	mg/m³

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3	allyl-heptanoate			142-19-8 205-527-	
	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/m³
4	allyl-hexanoate			123-68-2 204-642-	
	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/m³

PNEC values

No	Substance name CAS / EC no					
NO	ecological compartment	Value				
_		Туре				
1	2-butoxyethanol		111-76-2 203-905-0			
	water	fresh water	8,80	mg/L		
	water	marine water	0,88	mg/L		
	water	fresh water sediment	34,60	mg/kg		
	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	cis-2-tert-butylcyclohexyl acetate		20298-69-5			
			243-718-1			
	water	fresh water	0,011	mg/L		
	water	marine water	0,001	mg/L		
	water	fresh water sediment	1,5	mg/kg dry		
				weight		
	water	marine water sediment	0,15	mg/kg dry		
				weight		
	soil	-	0,293	mg/kg dry		
				weight		
	sewage treatment plant	-	10	mg/L		
3	undecan-4-olide		104-67-6			
			203-225-4			
	water	fresh water	5,85	μg/L		
	water	marine water	0,585	μg/L		
	water	Aqua intermittent	0,0585	mg/L		
	water	fresh water sediment	0,628	mg/kg dry		
				weight		
	water	marine water sediment	0,0628	mg/kg dry		
				weight		
	soil	-	0,122	mg/kg dry		
			100	weight		
	sewage treatment plant	-	80	mg/L		
	secondary poisoning	-	66,7	mg/kg food		
4	allyl-heptanoate		142-19-8			
		for all contain	205-527-1	//		
	water	fresh water	0,12	μg/L		
	water	marine water	0,012	μg/L		
	water	fresh water sediment	0,012	mg/kg dry		
			10.004	weight		
	water	marine water sediment	0,001	mg/kg dry		
				weight		

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	soil	-	0,002	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
5	allyl-hexanoate		123-68-2 204-642-4	ŀ
	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.

Eye / face protection

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 workstation 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

Form/Colour	
quid	
olourless	

0	dour
fr	uity

Odour threshold	
No data available	

nH volue	
pH value	
Not applicable	

Boiling point / boiling range

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No data available

Melting point / melting range

No data available

Decomposition point / decomposition range

No data available

Flash point

Value > 61 °C

Auto-ignition temperature

No data available

Oxidising properties

not oxidizing

Explosive properties

Product does not present an explosion hazard.

Flammability (solid, gas)

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

Value0,93g/cm³Reference temperature20°C

Solubility in water

Comments miscible

Solubility(ies)

No data available

D =4						
Part	ition coefficient: n-octanol/water					
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
log F	Pow			0,81		
Refe	erence temperature			25	°C	
Sou	rce	ECHA				
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1	
log F	Pow	4,7	-	4,8		
Refe	erence temperature			25	°C	
Metl	hod .	OECD 117				
Sou	rce	ECHA				
3	undecan-4-olide		104-67-6		203-225-4	
log F	ow			3,6		
Refe	erence temperature			25	°C	

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Method Source	OECD 117 ECHA			
4 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

None known

10.5 Incompatible materials

strong oxidizing agents; light metals

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acu	Acute oral toxicity (result of the ATE calculation for the mixture)							
No	Product Name	Product Name						
1	Duftstoff Apfel							
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 cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1
LD50			4600	mg/kg bodyweight
Species	rat			
Method	OECD 401			
Source	ECHA			
3 allyl-heptanoate		142-19-8		205-527-1
LD50			218	mg/kg bodyweight

Trade name: Duftstoff Apfel

Product no.: 176999

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Species	rat
Method	OECD 401
Source	ECHA

Acu	Acute dermal toxicity (result of the ATE calculation for the mixture)						
No	Product Name						
1	Duftstoff Apfel						
Con	nments	The result of the applied calculation method according to the					
European Regulation (EC) 1272/2008 (CLP), Paragrap							
Part 3 of Annex I is outside the values that imply a classificati							
labelling of this mixture according to table 3.1.1 defir							
		respective categories (ATE dermal > 2000 mg/kg).					

A	to down al taxiaity				
	te dermal toxicity				
No	Substance name		CAS no.		EC no.
1	2-butoxyethanol		111-76-2		203-905-0
LD5	0	>		2000	mg/kg bodyweight
Spe	cies	guinea pig			
Met	hod	OECD 402			
Sou	rce	ECHA			
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1
LD5	0	>		5000	mg/kg bodyweight
Spe	cies	rabbit			
Met	hod	OECD 402			
Sou	rce	ECHA			
3	undecan-4-olide		104-67-6		203-225-4
LD5	0	>		2000	mg/kg bodyweight
Spe	cies	rat			
Met	hod	OECD 402			
4	allyl-heptanoate		142-19-8		205-527-1
LD5	0			810	mg/kg bodyweight
Spe	cies	rabbit			
Met	hod	OECD 402			
Sou	rce	ECHA			

Acu	Acute inhalational toxicity (result of the ATE calculation for the mixture)						
No	Product Name						
1	Duftstoff Apfel						
ATE	ATE (Mixture) 3,0000 mg/l						
Rout	Route of exposure / physical from Dust/mist						
Meth	Method Calculation method according Regulation (EC) No 1272/2008,						
		(CLP), annex I, part 3, section 3.1.3.6.					

Acu	Acute inhalational toxicity						
No	Substance name		CAS no.		EC no.		
1	2-butoxyethanol		111-76-2		203-905-0		
ATE				1,5	mg/l		
Dura	ation of exposure			4	h		
State of aggregation		Dust/mist					
Spec	Species						

Skir	Skin corrosion/irritation						
No	Substance name		CAS no.		EC no.		
1	2-butoxyethanol		111-76-2		203-905-0		
Dura	ation of exposure			4	h		
Spe	cies	rabbit					
Metl	nod	EU B.4					
Sou	rce	ECHA					
Eval	uation	irritant					
2	cis-2-tert-butylcyclohexyl acetate	·	20298-69-5		243-718-1		

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Species	rabbit
Method	OECD 404
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
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.

Seri	ious eye damage/irritation			
No	Substance name		CAS no.	EC no.
1	2-butoxyethanol		111-76-2	203-905-0
Dura	ation of exposure		24	h
Spe	cies	rabbit		
Met	hod	OECD 405		
Sou	rce	ECHA		
Eva	luation	Irritating to e	eyes	
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5	243-718-1
Spe	cies	rabbit		
Met	hod	OECD 405		
Sou	rce	ECHA		
Eva	luation/classification	Based on av	ailable data, the classif	fication criteria are not met.
3	undecan-4-olide		104-67-6	203-225-4
Spe	cies	rabbit		
Met	hod	OECD 405		
Sou	rce	ECHA		
Eva	luation	non-irritant		
4	allyl-heptanoate		142-19-8	205-527-1
Spe	cies	rabbit		
Met	hod	OECD 405		
Sou	rce	ECHA		
Eva	luation/classification	Based on av	ailable data, the classif	fication criteria are not met.

Res	piratory or skin sensitisation		
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Rou	te of exposure	Skin	
Spe	cies	guinea pig	
Meth	nod	OECD 406	
Soul	rce	ECHA	
Eval	uation	non-sensitizing	
2	allyl-heptanoate	142-19-8	205-527-1
Rou	te of exposure	Skin	
Spe	cies	guinea pig	
Meth	nod	OECD 406	
Source		ECHA	
Eval	uation/classification	Based on available data, the classification	tion criteria are not met.

Ger	Germ cell mutagenicity						
No	Substance name	CAS no.	EC no.				
1	2-butoxyethanol	111-76-2	203-905-0				
Met	hod	OECD 471					
Sou	rce	ECHA					
Eva	luation/classification	Based on available data, the classification criteria are not met.					
2	undecan-4-olide	104-67-6	203-225-4				
Spe	cies	mouse					
Method		OECD 474					
Sou	rce	ECHA					
Eva	luation/classification	Based on available data, the classificatio	n criteria are not met.				

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Reproduction toxicity	
No data available	

Card	Carcinogenicity							
No	Substance name	CAS no.	EC no.					
1	2-butoxyethanol	111-76-2	203-905-0					
Spe	cies	rat						
Meth	nod	OECD 451						
Soul	rce	ECHA						
Evaluation/classification		Based on available data, the classification	on criteria are not met.					

STOT - single exposure

No data available

STOT - repeated exposure	
No data available	

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxi	Toxicity to fish (acute)							
No	Substance name		CAS no.		EC no.			
1	2-butoxyethanol		111-76-2		203-90	05-0		
LC5)	>		1474		mg/l		
Dura	tion of exposure			96		h		
Spec	cies	Oncorhynchu	ıs mykiss					
Meth	nod	OECD 203						
Soul	ce	ECHA						
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-71	8-1		
LC5)			5,6		mg/l		
Dura	tion of exposure			96		h		
Spec	cies	Danio rerio						
Meth	nod	EU C.1						
Soul	ce	ECHA						
3	allyl-heptanoate		142-19-8		205-52	27-1		
LC5)			0,117		mg/l		
Dura	tion of exposure			96		h		
Spec	cies	Danio rerio						
Meth	nod	OECD 203						
Sour	ce	ECHA						

Toxi	Toxicity to fish (chronic)							
No	Substance name		CAS no.	EC no.				
1	2-butoxyethanol		111-76-2	203-905-0				
NOE	EC	>	100	mg/l				
Dura	ation of exposure		21	day(s)				
Spe	cies	Danio rerio						
Meth	hod	OECD 204						
Soul	rce	ECHA						

Toxi	Toxicity to Daphnia (acute)						
No	Substance name	CAS no.		EC no.			
1	2-butoxyethanol	111-76-2		203-905-0			
EC5	0		1550	mg/l			
Duration of exposure			48	h			
Spe	cies	Daphnia magna					

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Method Source	OECD 202 ECHA		
2 cis-2-tert-butylcyclohexyl acetate	20298-69-5		243-718-1
EC50		17	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		
3 undecan-4-olide	104-67-6		203-225-4
EC50		5,85	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU Method C.2		
Source	ECHA		
4 allyl-heptanoate	142-19-8		205-527-1
EC50		0,89	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxi	Toxicity to Daphnia (chronic)						
No	Substance name	CAS no.		EC no.			
1	2-butoxyethanol	111-76-2		203-905-0			
NOE	:C		100	mg/l			
Dura	ation of exposure		21	day(s)			
Spe	cies	Daphnia magna					
Meth	nod	OECD 211					
Soul	ce	ECHA					
2	undecan-4-olide	104-67-6		203-225-4			
NOE	EC .		1,38	mg/l			
Dura	ation of exposure		21	day(s)			
Species		Daphnia magna					
Meth	nod	OECD 211					
Soul	ce	ECHA					

Toxi	Toxicity to algae (acute)						
No	Substance name	CAS no.		EC no.			
1	2-butoxyethanol	111-76-2		203-905-0			
EC5			911	mg/l			
Dura	ation of exposure		72	h			
Spe	cies	Pseudokirchneriella subcapi	tata				
Meth	nod	OECD 201					
Soul		ECHA					
2	cis-2-tert-butylcyclohexyl acetate	20298-69-5		243-718-1			
EC5	0		4,2	mg/l			
Dura	ation of exposure		72	h			
Spe		Scenedesmus subspicatus					
Meth	nod	OECD 201					
Soul	rce	ECHA					
3	undecan-4-olide	104-67-6		203-225-4			
ErC:	50		5,94	mg/l			
Dura	ation of exposure		48	h			
Spe	cies	Pseudokirchneriella subcapi	tata				
Meth	nod	OECD 201					
Soul	rce	ECHA					

Tox	icity to algae (chronic)			
No	Substance name	CAS no.	EC no.	

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1	cis-2-tert-butylcyclohexyl acetate	20298-69-5		243-718-1
NOEC			0,57	mg/l
Duration of exposure			72	h
Species		Scenedesmus subspicatus		
Method		OECD 201		
Source		ECHA		

Bac	Bacteria toxicity				
No	Substance name	CAS no.		EC no.	
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5		243-718-1	
NOEC			100		
Duration of exposure			61	day(s)	
Species		activated sludge			
Method		OECD 301 F			
Sou	rce	ECHA			

12.2 Persistence and degradability

Biod	Biodegradability				
No	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
Туре		aerobic biodegradation			
Valu	e		90,4	%	
Duration			28	day(s)	
Method		OECD 301 B			
Source		ECHA			
Evaluation		readily biodegradable			
2	cis-2-tert-butylcyclohexyl acetate	20298-69-5		243-718-1	
Valu	e		43	%	
Duration			28	day(s)	
Method		OECD 301 F			
Source		ECHA			
Evaluation		not readily biodegradable			

12.3 Bioaccumulative potential

.o Biodecamaiante petentiai						
Part	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		
Soul	rce	ECHA				
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1	
log F	Pow	4,7	-	4,8		
Reference temperature				25	°C	
Method OECD		OECD 117				
Source ECHA		ECHA				
3	undecan-4-olide		104-67-6		203-225-4	
log F	Pow			3,6		
Reference temperature				25	°C	
Meth	Method OECD 11					
Soul	Source ECHA					
4 allyl-heptanoate		142-19-8		205-527-1		
log F	log Pow			3,97		
Refe	Reference temperature			20	°C	
Soul	rce	ECHA				
			•			

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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Results of PBT and vPvB asses	
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 into the drains or waters and do not store on public depositories.

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

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

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

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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

No 3

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.

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)

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.

H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic 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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