Trade name: Duftstoff Apfel

Product no.: 176999

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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

Advice on Safety Data Sheet

sdb info@umco.de

1.4 Emergency telephone number

+353 1 809 2166 (National Poisons Information Centre)

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 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

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2,4-dimethylcyclohex-3-ene-1-carbaldehyde

citronellyl-formate

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

No	Substance name		Δdditi	onal information	
110		Closeification (EC) 4272/2009 (CLD)			%
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	entration	70
	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				

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	142-19-8 205-527-1	Acute Tox. 3; H301 Acute Tox. 3; H311	<	2,50	wt%
	-	Aquatic Acute 1; H400			
	01-2119488961-23				
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			

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

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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 (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

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No	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
	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			
	List of Chemical Agents and Occupational Exposure	Limit Values	(Code of Pra	ctice)	
	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	Sk, IOELV	•	•	

DNEL, DMEL and PNEC values

DNEL values (worker)

	DNEL values (WOIKel)			0.40 / 50	
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			CAS / EC n	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
3	allyl-heptanoate			142-19-8 205-527-1	
	oral	Long term (chronic)	systemic	0,42	mg/kg/day

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	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-	4
	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	ma/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
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			<u> </u>
	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 weight
	sewage treatment plant	-	80	mg/L
	secondary poisoning	-	66,7	mg/kg food
4	allyl-heptanoate		142-19-8 205-527-1	
	water	fresh water	0,12	μg/L
	water	marine water	0,012	μg/L
	water	fresh water sediment	0,012	mg/kg dry weight
	water	marine water sediment	0,001	mg/kg dry weight
	soil	-	0,002	mg/kg dry weight
<u> </u>	sewage treatment plant	-	10	mg/L

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5	allyl-hexanoate		123-68-2	
			204-642-4	
	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	
liquid	
colourless	

Odour	
fruity	

Odour threshold	
No data available	

pH value	
Not applicable	

Boiling point / boiling range	
No data available	

Melting point / melting range

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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

Value 0,93 g/cm³
Reference temperature 20 °C

Solubility in water

Comments miscible

Solubility(ies)

No data available

Partition	coefficient: n-octanol/water					
No Subs	stance name		CAS no.		EC no.	
1 2-bu	toxyethanol		111-76-2		203-905-0	
log Pow				0,81		
Reference	e temperature			25	°C	
Source		ECHA				
2 cis-2	2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1	
log Pow		4,7	-	4,8		
Reference	e temperature			25	°C	
Method		OECD 117				
Source		ECHA				
3 unde	ecan-4-olide		104-67-6		203-225-4	
log Pow				3,6		
Reference	e temperature			25	°C	
Method		OECD 117				
Source		ECHA				

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4	allyl-heptanoate	142-19-8		205-527-1
log F	Pow		3,97	
Refe	erence temperature		20	°C
Soul	rce	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

Acute oral toxicity (result of the ATE calculation for the mixture)					
No	Product Name				
1	Duftstoff Apfel				
Com	iments	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).			

Acu	te oral toxicity				
No	Substance name		CAS no.		EC no.
1	2-butoxyethanol		111-76-2		203-905-0
LD5	0			1746	mg/kg bodyweight
Spe	cies	rat			
Meth	nod	OECD 401			
Soul	rce	ECHA			
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1
LD5	0			4600	mg/kg bodyweight
Spe	cies	rat			
Meth	nod	OECD 401			
Soul	rce	ECHA			
3	allyl-heptanoate		142-19-8		205-527-1
LD5	0			218	mg/kg bodyweight
Spe	cies	rat			-
Meth	nod	OECD 401			

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LD50

Species Method

Source

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Source ECHA					
Acu	te dermal toxicity (result of the ATE	calculation for th	e mixture)		
No	Product Name		•		
1	Duftstoff Apfel				
Con	nments	European Re Part 3 of And labelling of the	egulation (EC) 1 nex I is outside	272/2008 the values rding to tal	ethod according to the (CLP), Paragraph 3.1.3.6, that imply a classification / ble 3.1.1 defining the 000 mg/kg).
Acu	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 Met Sou		guinea pig OECD 402 ECHA			
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1
LD5		>		5000	mg/kg bodyweight
Spe Met Sou		rabbit OECD 402 ECHA			J J , U
3	undecan-4-olide	•	104-67-6		203-225-4
LD5	0	>		2000	mg/kg bodyweight
Spe Met	cies hod	rat OECD 402			
4	allyl-heptanoate		142-19-8		205-527-1

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

rabbit

ECHA

OECD 402

810

mg/kg bodyweight

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	e of aggregation	Dust/mist				
Spec	cies	rat				

Skin	corrosion/irritation					
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
Dura	tion of exposure			4	h	
Spec	cies	rabbit				
Meth	nod	EU B.4				
Soul	ce	ECHA				
Eval	uation	irritant				
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1	
Spec	cies	rabbit				
Meth	nod	OECD 404				

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Source Evaluation/classification	ECHA 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, th	e classifica	tion 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, th	e classifica	tion 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		
Spec	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		
Spec	cies	guinea pig		
Meth	nod	OECD 406		
Soul	rce	ECHA		
Eval	uation/classification	Based on available data,	the classification	criteria are not met.

Ger	m cell mutagenicity		
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Metl	nod	OECD 471	
Sou	rce	ECHA	
Evaluation/classification Based on available data, the classification criteria are not met.			ssification criteria are not met.
2	undecan-4-olide	104-67-6	203-225-4
Spe	cies	mouse	
Metl	nod	OECD 474	
Sou	rce	ECHA	
Eval	Evaluation/classification Based on available data, the classification criteria are not met.		

Reproduction toxicity

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No	data	availa	able
110	uata	avanc	שוטג

Car	Carcinogenicity				
No	Substance name	CAS no.	EC no.		
1	2-butoxyethanol	111-76-2	203-905-0		
Spe	cies	rat			
Met	hod	OECD 451			
Sou	rce	ECHA			
Eva	luation/classification	Evaluation/classification Based on available data, the classification criteria are not me			

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		203-905-0
LC50)	>		1474	mg/l
Dura	tion of exposure			96	h
Spec	cies	Oncorhynchu	ıs mykiss		
Meth	nod	OECD 203			
Sour	ce	ECHA			
2	cis-2-tert-butylcyclohexyl acetate		20298-69-5		243-718-1
LC50				5,6	mg/l
Dura	tion of exposure			96	h
Spec	cies	Danio rerio			
Meth	nod	EU C.1			
Sour	ce	ECHA			
3	allyl-heptanoate		142-19-8		205-527-1
LC50)			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	C	>	100	mg/l	
Dura	ation of exposure		21	day(s)	
Spe	cies	Danio rerio		• • •	
Meth	nod	OECD 204			
Soul	rce	ECHA			

Tox	icity to Daphnia (acute)				
No	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
EC5	50		1550	mg/l	
Dura	ation of exposure		48	h	
Spe	cies	Daphnia magna			
Met	hod	OECD 202			
Sou	rce	ECHA			

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2	cis-2-tert-butylcyclohexyl acetate	20298-69-5	5	243-718-1	
EC:	50		17	mg/l	
Dur	ration of exposure		48	h	
Spe	ecies	Daphnia magna			
Me	thod	EU C.2			
Sou	urce	ECHA			
3	undecan-4-olide	104-67-6		203-225-4	
EC:	50		5,85	mg/l	
Dur	ration of exposure		48	h	
Spe	ecies	Daphnia magna			
Me	thod	EU Method C.2			
Sou	urce	ECHA			
4	allyl-heptanoate	142-19-8		205-527-1	
EC:	50		0,89	mg/l	
Dur	ration of exposure		48	h	
Spe	ecies	Daphnia magna			
Me	thod	OECD 202			
Sou	urce	ECHA			

Tox	icity to Daphnia (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	Daphnia magna			
Metl	nod	OECD 211			
Sou	rce	ECHA			
2	undecan-4-olide	104-67-6		203-225-4	
NOE	C		1,38	mg/l	
Dura	ation of exposure		21	day(s)	
Spe	cies	Daphnia magna			
Met	nod	OECD 211			
Sou	rce	ECHA			

Toxi	icity to algae (acute)			
No	Substance name	CAS no.		EC no.
1	2-butoxyethanol	111-76-2		203-905-0
EC5	0		911	mg/l
Dura	ation of exposure		72	h
Spe	cies	Pseudokirchneriella subcap	itata	
Meth	nod	OECD 201		
Soul	rce	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	cies	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 subcap	itata	
Meth	nod	OECD 201		
Soul	rce	ECHA		

Tox	icity to algae (chronic)		
No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
NOE	EC	0,57	mg/l

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Duration of exposure		72	h	
Species	Scenedesmus subspicatus			
Method	OECD 201			
Source	ECHA			

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

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Part	Partition coefficient: n-octanol/water					
			010			
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
log Pow				0,81		
Reference temperature				25	°C	
		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 117				
Soul	Source					
3	undecan-4-olide		104-67-6		203-225-4	
log F	Pow			3,6		
Reference temperature				25	°C	
Method		OECD 117				
Source		ECHA				
4	4 allyl-heptanoate		142-19-8		205-527-1	
log Pow				3,97		
Reference temperature				20	°C	
Soul	Source					

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

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	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

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

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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

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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