Trade name: Duftstoff Citrone

Product no.: 167999

Current version: 1.0.0, issued: 26.11.2020 Region: IE Replaced version: -, issued: -

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

1.1 **Product identifier**

Trade name

Duftstoff Citrone

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

+49-2303-9 86 70-0 Telephone no. 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 Acute 1: H400 Aquatic Chronic 1; H410 Asp. Tox. 1; H304 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

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



GHS08



Signal word

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Danger

Hazardous component(s) to be indicated on label:

2-butoxyethanol Orange, sweet, ext.

citral dodecanal pin-2(3)-ene

Hazard statement(s)

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.
P301+P310 Wear protective gloves/protective clothing/eye protection.
IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to

extinguish.

P391 Collect spillage.

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	Substance name		Additional information			
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration		%		
	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	Orange, sweet, ext	•					
	8028-48-6	Asp. Tox. 1; H304	>=	25,00 - <	50,00	wt%	
	232-433-8	Flam. Liq. 3; H226					

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	I	01: 1:0 11045	1		
	-	Skin Irrit. 2; H315			
	01-2119493353-35	Skin Sens. 1; H317			
		Aquatic Chronic 1; H410			
		Aquatic Acute 1; H400			
3	citral				
	5392-40-5	Eye Irrit. 2; H319	<	5,00	wt%
	226-394-6	Skin Irrit. 2; H315			
	605-019-00-3	Skin Sens. 1B; H317			
	01-2119462829-23				
4	7-methyl-3-methyle	eneocta-1,6-diene			
	123-35-3	Asp. Tox. 1; H304	<	2,50	wt%
	204-622-5	Flam. Liq. 3; H226			
	-	Eye Irrit. 2; H319			
	01-2119514321-56	Skin Irrit. 2; H315			
		Aquatic Acute 1; H400			
		Aquatic Chronic 1; H410			
5	dodecanal				
	112-54-9	Skin Sens. 1B; H317	<	0,50	wt%
	203-983-6	Skin Irrit. 2; H315			
	-	Eye Irrit. 2; H319			
	01-2119969441-33				
6	pin-2(3)-ene				
	80-56-8	Flam. Liq. 3; H226	<	0,50	wt%
	201-291-9	Asp. Tox. 1; H304			
	-	Skin Irrit. 2; H315			
	01-2119519223-49	Skin Sens. 1; H317			
		Acute Tox. 4; H302			
		Aquatic Chronic 1; H410			
		Aquatic Acute 1; H400			
	T+ f	·			

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. 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. Irregular breathing/no breathing: artificial respiration.

After skin contact

In case of contact with skin wash off with 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).

After ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Effects

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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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 (CO2); Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water. 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. Keep away from ignition sources.

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. Provide eye wash fountain in work area. Have emergency shower available.

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. Protect from heat and direct sunlight. Store in a dry place.

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Recommended storage temperature

Value Room temperature

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	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 Practice)						
	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					
2	citral	5392-40-5		226-394-6			
	List of Chemical Agents and Occupational Exposure	Limit Values	(Code of Prac	ctice)			
	Citral						
	WEL long-term (8-hr TWA reference period)			5 (IFV)	ppm		

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC n	0
	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	Orange, sweet, ext.			8028-48-6	
				232-433-8	
	dermal	Long term (chronic)		8,89	mg/kg/day
	dermal	Short term (acut)		185,8	μg/cm²
	inhalative			31,1	mg/m³
3	citral			5392-40-5	
				226-394-6	
	dermal	Long term (chronic)	systemic	1,7	mg/kg/day
	dermal	Long term (chronic)	local	140	μg/cm²
	inhalative	Long term (chronic)	systemic	9	mg/m³
4	pin-2(3)-ene			80-56-8	

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			201-291-9	
dermal	Short term (acut)	local	161	μg/cm²
inhalative	Long term (chronic)	systemic	5,98	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC r	10
	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	Orange, sweet, ext.			8028-48-6	
				232-433-8	
	oral	Long term (chronic)		4,44	mg/kg/day
	dermal	Long term (chronic)		4,44	mg/kg/day
	dermal	Short term (acut)		92,9	μg/cm²
	inhalative	Long term (chronic)		7,78	mg/m³
3	citral			5392-40-5	
				226-394-6	
	oral	Long term (chronic)	systemic	0,6	mg/kg/day
	dermal	Long term (chronic)	systemic	1	mg/kg/day
	dermal	Long term (chronic)	local	140	μg/cm²
	inhalative	Long term (chronic)	systemic	2,7	mg/m³
4	pin-2(3)-ene			80-56-8	
				201-291-9	
	oral	Long term (chronic)	systemic	0,31	mg/kg/day
	dermal	Short term (acut)	local	81	μg/cm²
	inhalative	Long term (chronic)	systemic	1,06	mg/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			
	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	Orange, sweet, ext.		8028-48-6	
			232-433-8	
	water	fresh water	5,4	mg/L
	water	marine water	0,54	mg/L
	water	fresh water sediment	1,3	mg/kg dry
			<u> </u>	weight
	water	marine water sediment	0,13	mg/kg dry
				weight
	water	Aqua intermittent	5,77	mg/L

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	soil	-	0,261	mg/kg dry weight
	sewage treatment plant	-	2,1	mg/L
	secondary poisoning	-	13,3	mg/kg
	with reference to: food	•		
3	citral		5392-40-5 226-394-6	
	water	fresh water	0,007	mg/L
	water	marine water	0,001	mg/L
	water	Aqua intermittent	0,068	mg/L
	water	fresh water sediment	0,125	mg/kg dry weight
	water	marine water sediment	0,013	mg/kg dry weight
	soil	-	0,021	mg/kg dry weight
	sewage treatment plant	-	1,6	mg/L
4	pin-2(3)-ene		80-56-8 201-291-9	
	water	fresh water	4	μg/L
	water	marine water	0,4	μg/L
	water	fresh water sediment	1,033	mg/kg dry weight
	water	marine water sediment	0,103	mg/kg dry weight
	soil	-	0,539	mg/kg dry weight
	sewage treatment plant	-	3,26	mg/L
	secondary poisoning	-	1,35	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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour				
liquid				
light yellow				
Odour				
fruity				
Odour threshold No data available				
pH value Not applicable				
Boiling point / boiling range	Т.	25	°C	
Value	>	35	C	
Melting point / melting range				
No data available				
Decomposition point / decomposition ran	ge			
No data available				
Flash point				
Value	>	45	°C	
Auto-ignition temperature				
No data available				
Oxidising properties				
No data available				
Explosive properties				
No data available				
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		0,87	g/cm³	
Reference temperature		20	°C	
Solubility in water				
Comments	miscible			
	1			

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Solubility(ies)	
No data available	

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	
Soul	rce	ECHA				
2	Orange, sweet, ext.		8028-48-6		232-433-8	
log F	Pow	>=		4		
3	citral		5392-40-5		226-394-6	
log F	Pow			2,76		
Refe	erence temperature			25	°C	
Meth	nod	OECD 107				
Soul	rce	ECHA				

Viscosity				
Value	<	7	mm²/s	
Reference temperature		40	°C	
Туре	kinematic			

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. Static discharges.

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					
1	Duftstoff Citrone					
Con	nments	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.	

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1	2-butoxyethanol		111-76-2		203-905-0
LD5	0			1746	mg/kg bodyweight
Spe	cies	rat			
Met	hod	OECD 401			
Sou	rce	ECHA			
2	Orange, sweet, ext.		8028-48-6		232-433-8
LD5	0	>		5000	mg/kg bodyweight
Spe	cies	rat			
3	citral		5392-40-5		226-394-6
LD5	0	appr.		6800	mg/kg bodyweight
Spe	cies	rat			
Met	hod	BASF-Test			
Sou	rce	ECHA			
4	7-methyl-3-methyleneocta-1,6-diene		123-35-3		204-622-5
LD5	0	>		3380	mg/kg bodyweight
Spe	cies	rat			
Met	hod	Approximate	lethal dose me	ethod (Deich	nmann WB and LeBlanc TJ,
		1943		`	
Sou	rce	ECHA			

Acu	Acute dermal toxicity (result of the ATE calculation for the mixture)					
No	Product Name					
1	Duftstoff Citrone					
Con	nments	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				
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 Orange, sweet, ext.		8028-48-6		232-433-8
LD50	>		5000	mg/kg bodyweight
Species	rabbit			
3 citral		5392-40-5		226-394-6
LD50	>		2000	mg/kg bodyweight
Species	rabbit			
Method	BASF-Test			
Source	ECHA			
4 7-methyl-3-methyleneocta-1,6-diene		123-35-3		204-622-5
LD50	>		5000	mg/kg bodyweight
Species	rabbit			
Method	OECD 402			
Source	ECHA			

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

Acute inhalational toxicity

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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	
Stat	e of aggregation	Dust/mist				
Spe	cies	rat				

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	hod	EU B.4				
Sou	rce	ECHA				
Eval	luation	irritant				
2	7-methyl-3-methyleneocta-1,6-diene		123-35-3		204-622-5	
Spe	cies	Human				
Method		ECVAM protocol version 1.8 of february 2009			ary 2009	
Source		ECHA				
Evaluation		irritant				
Eval	luation/classification	Based on available data, the classification criteria are met.				

Seri	ous 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	yes		
2	Orange, sweet, ext.		8028-48-6		232-433-8
Spe	cies	rabbit			
Met	hod	OECD 405			
Eva	luation	non-irritant			
3	citral		5392-40-5		226-394-6
Spe	cies	rabbit			
Met	hod	OECD 405			
Sou	rce	ECHA			
Eva	luation	irritant			
4	7-methyl-3-methyleneocta-1,6-diene		123-35-3		204-622-5
Spe	cies	rabbit			
Met	hod	OECD 405			
Sou	rce	ECHA			
Eva	luation	Irritating to e	yes		
Eva	luation/classification	Based on av	ailable data, the	e classification	n criteria are met.

Res	Respiratory 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	citral	5392-40-5	226-394-6			
Rou	te of exposure	Skin				
Spe	cies	guinea pig				
Meth	nod	OECD 406				
Soul	rce	ECHA				

Trade name: Duftstoff Citrone

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Evaluation	non-sensitizing		
3 7-methyl-3-methyleneocta-1,6-diene	123-35-3 204-622-5		
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are met.		

Ger	erm 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	n criteria are not met.		
2	citral	5392-40-5	226-394-6		
Met	hod	OECD 471			
Sou	rce	ECHA			
Eva	luation/classification	Based on available data, the classification	n criteria are not met.		
3	7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5		
Type of examination		Bacterial Reverse Mutation Test			
Spe	cies	Salmonella typhimurium TA98, TA100, TA1535, TA1537			
Met	hod	OECD 471			
Sou		ECHA			
Eva	luation/classification	Based on available data, the classification criteria are met.			
Rou	te of exposure	oral			
Тур	e of examination	In vivo mammalian somatic cell study: cy	togenicity / erythrocyte		
		micronucleus			
	cies	mouse			
Met	hod	OECD 474			
Sou	rce	ECHA			
Eva	luation/classification	Based on available data, the classification	n criteria are not met.		

Rep	Reproduction toxicity					
No	Substance name	CAS no.	EC no.			
1	citral	5392-40-5	226-394-6			
Meth	nod	OECD 414				
Soul	rce	ECHA				
Eval	uation/classification	Based on available data, the classification	n criteria are not met.			
2	7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5			
Rou	te of exposure	oral				
Spe	cies	rat				
Meth	nod	OECD 415				
Soul	rce	ECHA				
Eval	uation/classification	Based on available data, the classification	n criteria are not met.			

Card	cinogenicity		
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	
Eval	uation/classification	Based on available data, the clas	sification criteria are not met.
2	citral	5392-40-5	226-394-6
Meth	nod	OECD 453	
Soul	rce	ECHA	
Eval	uation/classification	Based on available data, the clas	sification criteria are not met.

STOT - single exposure

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STC	STOT - repeated exposure					
No	Substance name	CAS no.	EC no.			
1	7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5			
Rou	te of exposure	oral				
Spe	cies	rat				
Metl	hod	OECD 408				
Source		ECHA				
Eval	luation/classification	Based on available data, the classif	ication 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
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
2 Orange, sweet, ext.	8028-48-6		232-433-8
LC50		0,7	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
3 citral	5392-40-5		226-394-6
LC50		6,78	mg/l
Duration of exposure		96	h
Species	Leuciscus idus		
Method	DIN 38412		
Source	ECHA		

Toxi	icity 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				
Metl	hod	OECD 204				
Sou	rce	ECHA				

Toxi	city to Daphnia (acute)				
No	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
EC5	0		1550	mg/l	
Dura	ation of exposure		48	h	
Spe	cies	Daphnia magna			
Meth	nod	OECD 202			
Soul	rce	ECHA			
2	Orange, sweet, ext.	8028-48-6		232-433-8	
EC5	0		0,67	mg/l	
Dura	ation of exposure		48	h	
Spe	cies	Daphnia magna			
Soul	rce	OECD 202			

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3	citral	5392-40-5		226-394-6
EC5	50		6,8	mg/l
Dura	ation of exposure		48	h
Spe	cies	Daphnia magna		
Met	hod	79/831/EEC		
Sou	rce	ECHA		
4	7-methyl-3-methyleneocta-1,6-diene	123-35-3		204-622-5
EC5	50		1,47	mg/l
Dura	ation of exposure		48	h
Spe	cies	Daphnia magna		
Met	hod	OECD 202		
Sou	rce	ECHA		

Toxi	city 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			
Meth	nod	OECD 211			
Soul	rce	ECHA			

Toxi	Toxicity 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	
Spec		Pseudokirchneriella subcapit	ata		
Meth		OECD 201			
Soul	ce	ECHA			
2	Orange, sweet, ext.	8028-48-6		232-433-8	
ErC!			150	mg/l	
Dura	ation of exposure		72	h	
Spec		Desmodesmus subspicatus			
Meth	nod	OECD 201			
3	citral	5392-40-5		226-394-6	
EC5	0		103,8	mg/l	
Dura	ation of exposure		72	h	
Spec		Desmodesmus subspicatus			
Meth		DIN 38412			
Soul		ECHA			
4	7-methyl-3-methyleneocta-1,6-diene	123-35-3		204-622-5	
EC5	0		0,342	mg/l	
Dura	ation of exposure		72	h	
Spec	cies	Pseudokirchneriella subcapit	ata		
Soul	rce	OECD 201			

Toxicity to algae (chronic) No data available

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

		,		
Biod	degradability			
No	Substance name	CAS no.	EC no.	
1	2-butoxyethanol	111-76-2	203-905-0)
Туре	9	aerobic biodegradation		
Valu	e		90,4 %	
Dura	ation		28 da	y(s)

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		1				
Method OECD 301 B						
Source		ECHA	ECHA			
Eva	uation	readily biodegradab	degradable			
2	Orange, sweet, ext.	8028-	-48-6	232-433-8		
Valu	e	72	- 83,4	%		
Dura	ation		28	day(s)		
Met	nod	OECD 301 B				
Eva	uation	readily biodegradab	ole			
3	citral	5392-	-40-5	226-394-6		
Туре	9	BSB				
Valu	e	>	90	%		
Dura	ation		28	day(s)		
Method		92/69/EEC, C.4-C				
Source		ECHA				

12.3 Bioaccumulative potential

Biod	Bioconcentration factor (BCF)		
No	Substance name	CAS no.	EC no.
1	Orange, sweet, ext.	8028-48-6	232-433-8
BCF		32 -	156

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 Orange, sweet, ext.		8028-48-6		232-433-8	
log Pow	>=		4		
3 citral		5392-40-5		226-394-6	
log Pow			2,76		
Reference temperature			25	°C	
Method	OECD 107				
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 let enter the product into drains or waterways and do not store on public depositories.

SECTION 13: Disposal considerations

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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
UN number UN1266

Proper shipping name PERFUMERY PRODUCTS

Tunnel restriction code E l abel 3

Environmentally hazardous Symbol "fish and tree"

substance mark

14.2 Transport IMDG

Class 3
Packing group III

UN number UN1266

Proper shipping name PERFUMERY PRODUCTS Technical name Orange, sweet, ext.

EmS F-E, S-D Label 3

Marine pollutant mark Symbol "fish and tree"

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)

E1, P5c

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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, 40

XVII.

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:

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

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)

H302 Harmful if swallowed. H312 Harmful in contact with skin. H400 Very toxic to aquatic life.

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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