Trade name: Duftstoff Citrone Product no.: 167999 Current version : 1.0.0, issued: 26.11.2020

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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
 J-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

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 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 Danger

Hazardous component(s) to be indicated on label:

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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 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 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		Addit	ional information		
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	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	Orange, sweet, ext	•				
	8028-48-6	Asp. Tox. 1; H304	>=	25,00 - <	50,00	wt%
	232-433-8	Flam. Liq. 3; H226				
	-	Skin Irrit. 2; H315				
	01-2119493353-35	Skin Sens. 1; H317				
		Aquatic Chronic 1; H410				

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		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-methyl	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			

ull text for all H-phrases and EUH-phrases: pls.

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.

SECTION 5: Firefighting measures

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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.

Recommended storage temperature

Value

Room temperature

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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	
	Occupational Exposure Limit Values (Schedule V, Oc	cupational H	ealth and Saf	ety Authority	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)				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	Skin			
	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)

No	Substance name			CAS / EC	no
	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	· · · · · ·		80-56-8 201-291-9	
	dermal	Short term (acut)	local	161	µg/cm²
	inhalative	Long term (chronic)	systemic	5,98	mg/m ³

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No	Substance name	•		CAS / EC	no
	Route of exposure	Exposure time	Effect	Value	
1	2-butoxyethanol			111-76-2 203-905-0	1
	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/m ³
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/m ³

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			
				weight			
	water	marine water sediment	0,13	mg/kg dry			
		<u> </u>		weight			
	water	Aqua intermittent	5,77	mg/L			
	soil	-	0,261	mg/kg dry			
				weight			
	sewage treatment plant	-	2,1	mg/L			

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	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
ŀ	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 work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Material thickness	>=	0,5	mm
Breakthrough time	>	120	min

Other

Chemical-resistant work clothes.

Environmental exposure controls No data available.

No data available.

SECTION 9: Physical and chemical properties

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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			
Value	>	35	0 °
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
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/cm ³
Reference temperature		20	°C
Solubility in water			
Comments	miscible		
Solubility(ies)			
No data available			

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David						
Part No	ition coefficient: n-octanol/water 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	Orange, sweet, ext.		8028-48-6		232-433-8	
log F	Pow	>=		4		
3	citral		5392-40-5		226-394-6	
log I	Pow			2,76		
Refe	erence temperature			25	°C	
Met	nod	OECD 107				
Sou	rce	ECHA				
Visc	cosity					
Valu	· · · · · · · · · · · · · · · · · · ·	<	7	mm²/s		
	-		40	°C		
	erence temperature	Lin and atta	40			
Туре	9	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

No	Product Name	ATE calculation for the mixture)
1	Duftstoff Citrone	
Con	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	Acute oral toxicity				
No	Substance name	CAS no.	EC no.		
1	2-butoxyethanol	111-76-2	203-905-0		
LD5	0	1746	mg/kg bodyweight		

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Spe	cies	rat			
Met	hod	OECD 401			
Sou	rce	ECHA			
2	Orange, sweet, ext.	-	8028-48-6		232-433-8
LD5	50	>		5000	mg/kg bodyweigh
	cies	rat			3 3 3 3
3	citral		5392-40-5		226-394-6
LD5	50	appr.		6800	mg/kg bodyweigh
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		>		3380	mg/kg bodyweigh
	cies	rat			
Met	hod		e lethal dose m	ethod (Deic	hmann WB and LeBlanc TJ,
_		1943			
Sou	rce	ECHA			
Acu	te dermal toxicity (result of the ATE cal	culation for th	ne mixture)		
	Product Name				
1	Duftstoff Citrone				
Con	nments	The result of	f the applied ca	alculation me	ethod according to the
					(CLP), Paragraph 3.1.3.6,
					that imply a classification /
		labelling of t			
				cording to ta	ble 3.1.1 defining the
			his mixture acc	cording to ta	ble 3.1.1 defining the
	te dermal toxicity		his mixture acc ategories (ATE	cording to ta	ble 3.1.1 defining the 000 mg/kg).
No	Substance name		his mixture acc ategories (ATE CAS no.	cording to ta	ble 3.1.1 defining the 000 mg/kg). EC no.
No 1	Substance name 2-butoxyethanol		his mixture acc ategories (ATE	cording to ta dermal > 2	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0
No 1 LD5	Substance name 2-butoxyethanol	respective c	his mixture acc ategories (ATE CAS no.	cording to ta	ble 3.1.1 defining the 000 mg/kg). EC no.
No 1 LD5 Spe	Substance name 2-butoxyethanol 0 cies	<pre>> guinea pig</pre>	his mixture acc ategories (ATE CAS no.	cording to ta dermal > 2	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0
No 1 LD5 Spe Met	Substance name 2-butoxyethanol 0 cies hod	<pre>> guinea pig OECD 402</pre>	his mixture acc ategories (ATE CAS no.	cording to ta dermal > 2	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0
No 1 LD5 Spe Met Sou	Substance name 2-butoxyethanol 0 cies hod rce	<pre>> guinea pig</pre>	his mixture acc ategories (ATE CAS no. 111-76-2	cording to ta dermal > 2	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0
No 1 LD5 Spe Met Sou 2	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext.	<pre>> guinea pig OECD 402</pre>	his mixture acc ategories (ATE CAS no.	cording to ta dermal > 2 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8
No 1 LD5 Spe Met Sou 2 LD5	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0	<pre>> respective c puinea pig OECD 402 ECHA ></pre>	his mixture acc ategories (ATE CAS no. 111-76-2	cording to ta dermal > 2	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8
No 1 LD5 Spe Met Sou 2 LD5	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext.	<pre>> guinea pig OECD 402 ECHA</pre>	his mixture acc ategories (ATE CAS no. 111-76-2	cording to ta dermal > 2 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8
No 1 LD5 Spe Sou 2 LD5 Spe 3	Substance name 2-butoxyethanol 0 cies hod Control Cont	<pre>> respective c puinea pig OECD 402 ECHA ></pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6	cording to ta dermal > 2 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6
No 1 LD5 Spe Met Sou 2 LD5 Spe 3 LD5	Substance name 2-butoxyethanol 0 cies hod Control Cont	<pre>respective c guinea pig OECD 402 ECHA > rabbit</pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6	2000 2000 5000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6
No 1 Spe Met Sou 2 LD5 Spe 3 LD5 Spe	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit ></pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6	2000 2000 5000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6
No 1 LD5 Spe Met Sou 2 LD5 Spe 3 LD5 Spe Met	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies hod	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit</pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6	2000 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6
No 1 LD5 Spe Sou 2 LD5 Spe 3 LD5 Spe Met Sou	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies hod	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test</pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6	2000 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6
No 1 LD5 Spe Sou 2 LD5 Spe 3 LD5 Spe Spe Met Sou 4	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies hod 7-methyl-3-methyleneocta-1,6-diene	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test</pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5	2000 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh 204-622-5
No 1 LD5 Spe Met Sou 2 LD5 Spe 3 LD5 Spe Met Sou LD5 Spe Spe	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies cies cies citral 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit</pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5	2000 5000 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh
No 1 LD5 Spe Met Sou 2 LD5 Spe Met Sou 4 LD5 Spe Spe Sou 2 Spe Spe Met Sou 2 Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe 3 Spe Spe Spe Spe Spe Spe Spe Spe	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies cies cies citral 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA ></pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5	2000 5000 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh 204-622-5
No 1 LD5 Spe Met Sou 2 LD5 Spe Met Sou 4 LD5 Spe Met	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies cies cies cies cies rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit</pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5	2000 5000 2000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh 204-622-5
No 1 LD5 Spe Met Sou 2 LD5 Spe 3 LD5 Spe Met Sou 4 LD5 Spe Met Sou	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod rce	respective c s guinea pig OECD 402 ECHA s rabbit BASF-Test ECHA s rabbit OECD 402 CHA	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5 123-35-3	cording to ta <u>dermal > 2</u> 2000 5000 2000 5000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh 204-622-5
No 1 LD5 Spe Met Sou 2 LD5 Spe 3 LD5 Spe Met Sou 4 LD5 Spe Met Sou 4 LD5 Spe Act Act Act Act Act Act Act Act	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies cies cies cies cies cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod rce te inhalational toxicity (result of the ATI	respective c s guinea pig OECD 402 ECHA s rabbit BASF-Test ECHA s rabbit OECD 402 CHA	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5 123-35-3	cording to ta <u>dermal > 2</u> 2000 5000 2000 5000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh 204-622-5
No 1 LD5 Spe Met Sou 2 LD5 Spe Met Sou 4 LD5 Spe Met Sou Sou A Cu No	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod rce te inhalational toxicity (result of the ATI Product Name	respective c s guinea pig OECD 402 ECHA s rabbit BASF-Test ECHA s rabbit OECD 402 CHA	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5 123-35-3	cording to ta <u>dermal > 2</u> 2000 5000 2000 5000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh 204-622-5
No 1 LD5 Spe Spe 3 LD5 Spe 3 LD5 Spe Met Sou 4 LD5 Spe Met Sou 4 LD5 Spe Met Sou 1 Spe Met Sou 1 Spe Spe Spe 1 Spe 1 Spe Spe 1 Sp	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies o cies hod rce 7-methyl-3-methyleneocta-1,6-diene o cies hod rce 7-methyl-3-methyleneocta-1,6-diene o cies hod rce te inhalational toxicity (result of the ATI Product Name Duftstoff Citrone	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA </pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5 123-35-3	cording to ta <u>dermal > 2</u> 2000 5000 2000 5000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh 204-622-5
No 1 LD5 Spe Spe 3 LD5 Spe 3 LD5 Spe 4 LD5 Spe Met Sou 4 LD5 Spe Met Sou 4 LD5 Spe Met Sou 4 LD5 Spe Met Spe 1 Spe Spe 1 Spe Spe 1 Spe 1 Spe 1 Spe Spe 1 Spe Spe Spe Spe S	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies o cies hod rce 7-methyl-3-methyleneocta-1,6-diene o cies hod rce 7-methyl-3-methyleneocta-1,6-diene o cies hod rce te inhalational toxicity (result of the ATI Product Name Duftstoff Citrone (Mixture)	respective c s guinea pig OECD 402 ECHA > rabbit S rabbit BASF-Test ECHA > rabbit OECD 402 ECHA ECHA S CECD 402 ECHA S CECD 402 ECHA S CECD 402 CECD 402	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5 123-35-3	cording to ta <u>dermal > 2</u> 2000 5000 2000 5000	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh
No 1 LD5 Spe Spe 3 LD5 Spe 3 LD5 Spe 4 LD5 Spe Met Sou 4 LD5 Spe Met Sou 4 LD5 Spe Met Sou 4 LD5 Spe Met Spe 1 Spe Spe 1 Spe Spe 1 Spe 1 Spe 1 Spe Spe 1 Spe Spe Spe Spe S	Substance name 2-butoxyethanol 0 cies hod rce Orange, sweet, ext. 0 cies citral 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod rce 7-methyl-3-methyleneocta-1,6-diene 0 cies hod rce Duftstoff Citrone (Mixture) te of exposure / physical from	<pre>respective c respective c guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA E calculation 3,0000 Dust/mist</pre>	his mixture acc ategories (ATE CAS no. 111-76-2 8028-48-6 5392-40-5 123-35-3 for the mixtur mg/l	cording to ta <u>dermal > 2</u> 2000 5000 2000 5000 re)	ble 3.1.1 defining the 000 mg/kg). EC no. 203-905-0 mg/kg bodyweigh 232-433-8 mg/kg bodyweigh 226-394-6 mg/kg bodyweigh

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

ent version : 1.0.0, issued: 26.11.2020	Replaced version: -, issu	ueu	Regio
ATE		1,5 mg/l	
Duration of exposure		4 h	
State of aggregation	Dust/mist		
Species	rat		
Skin corrosion/irritation			
No Substance name	CAS no.	EC no.	
1 2-butoxyethanol	111-76-2	203-905-0	
Duration of exposure		4 h	
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		
2 7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5	
Species	Human		
Method	ECVAM protocol version 1	.8 of february 2009	
Source	ECHA	,	
Evaluation	irritant		
Evaluation/classification		he classification criteria are me	et.
	,		
Serious eye damage/irritation			
No Substance name	CAS no.	EC no.	
1 2-butoxyethanol	111-76-2	203-905-0	
Duration of exposure		24 h	
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		
2 Orange, sweet, ext.	8028-48-6	232-433-8	
Species	rabbit		
Method	OECD 405		
Evaluation	non-irritant		
3 citral	5392-40-5	226-394-6	
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
4 7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5	
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		
Evaluation/classification		he classification criteria are me	et.
Respiratory or skin sensitisation No Substance name	CAS no.	EC no.	
1 2-butoxyethanol	111-76-2	203-905-0	
	Skin	203-909-0	
Route of exposure			
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non consitizing		

Eval	uation	non-sensitizing	
2	citral	5392-40-5	226-394-6
Rout	te of exposure	Skin	
Spee	cies	guinea pig	
Meth	nod	OECD 406	
Sou	rce	ECHA	
Eval	uation	non-sensitizing	
3	7-methyl-3-methyleneocta-1.6-diene	123-35-3	204-622-5

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Route of exposure	Skin	
Species	mouse	
Method	OECD 429	
Source	ECHA	
Evaluation	non-sensitizing	
Evaluation/classification	Based on available data, the cl	assification criteria are met
Germ cell mutagenicity		
No Substance name	CAS no.	EC no.
1 2-butoxyethanol	111-76-2	203-905-0
Method	OECD 471	
Source	ECHA	
Evaluation/classification		assification criteria are not met.
2 citral	5392-40-5	226-394-6
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the cl	assification criteria are not met.
3 7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5
Type of examination	Bacterial Reverse Mutation Tes	t
Species	Salmonella typhimurium TA98,	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the cl	assification criteria are met.
Route of exposure	oral	
Type of examination		l study: cytogenicity / erythrocyte
	micronucleus	olday. Gylogomoly / Grytmodylo
Species	mouse	
Method	OECD 474	
Source	ECHA	
Evaluation/classification		assification criteria are not met.
Reproduction toxicity		
	CAS no	
No Substance name	CAS no.	EC no.
No Substance name 1 citral	5392-40-5	EC no. 226-394-6
No Substance name 1 citral Method	5392-40-5 OECD 414	
No Substance name 1 citral Method Source	5392-40-5 OECD 414 ECHA	226-394-6
No Substance name 1 citral Method Source Evaluation/classification	5392-40-5 OECD 414 ECHA Based on available data, the cl	226-394-6 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3	226-394-6
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral	226-394-6 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Species	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat	226-394-6 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method	5392-40-5 OECD 414 ECHA Based on available data, the cl. 123-35-3 oral rat OECD 415	226-394-6 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Source	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA	226-394-6 assification criteria are not met. 204-622-5
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA	226-394-6 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Source	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA	226-394-6 assification criteria are not met. 204-622-5
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA	226-394-6 assification criteria are not met. 204-622-5
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity Carcinogenicity	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Species Method Source Evaluation/classification Carcinogenicity No No Substance name	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no.	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No No Substance name 1 2-butoxyethanol Species	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no.
No Substance name 1 citral Method Source Evaluation/classification 2 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no.
No Substance name 1 citral Method Source Evaluation/classification 2 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Substance name 1 2-butoxyethanol Species Method	5392-40-5 OECD 414 ECHA Based on available data, the cl. 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl. CAS no. 111-76-2 rat OECD 451 ECHA	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification	5392-40-5 OECD 414 ECHA Based on available data, the cl. 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl. CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl.	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification 2 Loutoxyethanol Species Method Source Evaluation/classification 2 citral	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl 5392-40-5	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification 2 citral Method Source Evaluation/classification	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl 5392-40-5 OECD 453	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification 2 citral Method Source Evaluation/classification	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl 5392-40-5 OECD 453 ECHA	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0 assification criteria are not met. 226-394-6
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 citral Method Source Evaluation/classification	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl 5392-40-5 OECD 453 ECHA	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0 assification criteria are not met.
No Substance name 1 citral Method Source Evaluation/classification 2 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 Stott - single exposure Stott - single exposure	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl 5392-40-5 OECD 453 ECHA	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0 assification criteria are not met. 226-394-6
No Substance name 1 citral Method Source Evaluation/classification 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 citral Method Source Evaluation/classification	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl 5392-40-5 OECD 453 ECHA	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0 assification criteria are not met. 226-394-6
No Substance name 1 citral Method Source Evaluation/classification 2 2 7-methyl-3-methyleneocta-1,6-diene Route of exposure Species Method Source Evaluation/classification Carcinogenicity No Substance name 1 2-butoxyethanol Species Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 citral Method Source Evaluation/classification 2 Stott - single exposure Stott - single exposure	5392-40-5 OECD 414 ECHA Based on available data, the cl 123-35-3 oral rat OECD 415 ECHA Based on available data, the cl CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the cl 5392-40-5 OECD 453 ECHA	226-394-6 assification criteria are not met. 204-622-5 assification criteria are not met. EC no. 203-905-0 assification criteria are not met. 226-394-6

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CAS no.	EC no.			
123-35-3	204-622-5			
oral				
rat				
OECD 408	OECD 408			
ECHA				
Based on available data, the class	ification criteria are not met.			
Evaluation/classification Based on available data, the classification criteria are not met. Aspiration hazard				
	123-35-3 oral rat OECD 408 ECHA			

Aspiration hazard No data available

SECTION 12: Ecological information

12.1 Toxicity

	city to fish (acute)			
	Substance name		CAS no.	EC no.
1	2-butoxyethanol		11-76-2	203-905-0
_C5		>	1474	mg/l
	ation of exposure		96	h
Spe		Oncorhynchus	mykiss	
Meth		OECD 203		
Sou		ECHA	000 40 0	000 400 0
	Orange, sweet, ext.	8	028-48-6	232-433-8
LC5			0,7	mg/l
	ation of exposure	Dimonholog	96	h
Spe		Pimephales pro OECD 203	omeias	
Meth			202 40 5	226 204 6
3 LC5	citral	5	392-40-5 6,78	226-394-6
	ation of exposure		6,78 96	mg/l h
Spe		Leuciscus idus		11
Spec Meth		DIN 38412		
Soui		ECHA		
Jour		LONA		
Toxi	city to fish (chronic)			
-	Substance name		CAS no.	EC no.
1	2-butoxyethanol	1	11-76-2	203-905-0
NOE		>	100	mg/l
	ation of exposure		21	day(s)
Spe		Danio rerio		
Meth		OECD 204		
Soui	rce	ECHA		
Tovi	city to Daphnia (acute)			
	Substance name	(CAS no.	EC no.
1	2-butoxyethanol		11-76-2	203-905-0
EC5	· · · · · · · · · · · · · · · · · · ·		1550	mg/l
	ation of exposure		48	h
Spe		Daphnia magna		
Meth		OECD 202	4	
Sou		ECHA		
	Orange, sweet, ext.	_	028-48-6	232-433-8
EC5			0,67	mg/l
	ation of exposure		48	h
Spe		Daphnia magna		
Sou		OECD 202		
3	citral		392-40-5	226-394-6
EC5			6,8	mg/l
	-		0,0	119/1

rent version : 1.0.0, issued: 26.11.2020	Replaced version: -, issued	1: -		Region:
Species	Daphnia magna			
Method	79/831/EEC			
Source	ECHA			
4 7-methyl-3-methyleneocta-1,6-diene	123-35-3		204-622-5	
EC50		1,47	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			
Toxicity to Daphnia (chronic)				
No Substance name	CAS no.		EC no.	
1 2-butoxyethanol	111-76-2		203-905-0	
NOEC		100	mg/l	
Duration of exposure	Danhais as san s	21	day(s)	
Species Method	Daphnia magna OECD 211			
Source	ECHA			
	ECHA			
Toxicity to algae (acute)				
No Substance name	CAS no.		EC no.	
1 2-butoxyethanol	111-76-2	044	203-905-0	
EC50		911 72	mg/l h	
Duration of exposure Species	Pseudokirchneriella subcapit	•	11	
Method	OECD 201	lala		
Source	ECHA			
2 Orange, sweet, ext.	8028-48-6		232-433-8	
ErC50		150	mg/l	
Duration of exposure		72	h	
Species	Desmodesmus subspicatus			
Method	OECD 201			
3 citral	5392-40-5		226-394-6	
EC50		103,8	mg/l	
Duration of exposure	Deemedeemus subscientus	72	h	
Species Method	Desmodesmus subspicatus DIN 38412			
Source	ECHA			
4 7-methyl-3-methyleneocta-1,6-diene	123-35-3		204-622-5	
EC50		0,342	mg/l	
Duration of exposure		72	h	
Species	Pseudokirchneriella subcapit			
Source	OECD 201			
Toxicity to algae (chronic)				
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	day(s)	
Meth	nod	OECD 301 B			
Sou	rce	ECHA			
Eval	uation	readily biodegradable			

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

12.3 Bioaccumulative potential

Bio	concentration factor (BCF)					
No	Substance name		CAS no.		EC no.	
1	Orange, sweet, ext.		8028-48-6		232-433-8	
BCF		32	-	156		
Part	tition coefficient: n-octanol/water					
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
log I	Pow			0,81		
Reference temperature				25	°C	
Sou	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		
Reference temperature				25	°C	
Met	hod	OECD 107				
Sou	rce	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

13.1 Waste treatment methods

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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	111
UN number	UN1266
Proper shipping name	PERFUMERY PRODUCTS
Tunnel restriction code	E
Label	3
Environmentally hazardous	Symbol "fish and tree"
substance mark	-

14.2 Transport IMDG

Class	3
Packing group	111
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	
Packing group	
UN number	
Proper shipping name	
Label	

14.4 Other information No data available.

14.5 Environmental hazards

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

3 III UN1266

3

Perfumery products

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 <u>EU regulations</u>

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.

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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 MANUF THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND	
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:
 E1, P5c

 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

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

This information is based on our present knowledge and experience.

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

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

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