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

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Region: GB

# 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 Telephone no. +49-2303-9 86 70-0 Fax no. +49-2303-9 86 70-26

Advice on Safety Data Sheet

sdb\_info@umco.de

#### 1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord) For information in the event of an emergency during transport: +44 1865 407333

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Acute Tox. 4; H332 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



	e <b>name:</b> Duftstoff Citro uct no.: 167999	ne			
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	GHS02	GHS07	GHS08	GHS09	
	<b>Signal word</b> Danger				
	Hazardous compone 2-butoxyethanol Orange, sweet, ext. citral dodecanal pin-2(3)-ene	nt(s) to be in	dicated on labe	l:	
	Hazard statement(s) H226 H304 H315 H317 H319 H332 H410	May be Causes May cau Causes Harmful	skin irritation. use an allergic s serious eye irrit if inhaled.	d and enters airways. kin reaction.	
	Precautionary staten P210		•	ot surfaces, sparks, open flames and ot	her ignition sources. No
	P273 P280 P301+P310 P331 P370+P378	Avoid re Wear pr IF SWA Do NOT	lease to the env otective gloves/ LLOWED: Imme induce vomiting of fire: Use wate	protective clothing/eye protection. ediately call a POISON CENTER/doctor.	mical or carbon dioxide
	P391	Collect			

#### 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)	Conc	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					

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	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			
		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				
	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			
Full	Text for all H_nhrases	and EUH-phrases; pls_see section 16	•		•

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.

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#### **4.3 Indication of any immediate medical attention and special treatment needed** No data available.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media High power water jet

# 5.2 Special hazards arising from the substance or mixture

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

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# 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

# 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.

Room temperature

#### 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 approved workplace exposure limits (WELs) /	EH40			
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m³	50	ppm
	WEL long-term (8-hr TWA reference period)	123	mg/m³	25	ppm
	Comments	Sk, BMGV			

# DNEL, DMEL and PNEC values

#### **DNEL** values (worker)

No	Substance name			CAS / EC r	10
	Route of exposure	Exposure time	Effect	Value	
1	2-butoxyethanol			111-76-2 203-905-0	
	dermal	Long term (chronic)	systemic	125.00	mg/kg/day
	dermal	Short term (acut)	systemic	89.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	98.00	mg/m³
	inhalative	Short term (acut)	systemic	1091.00	mg/m³
	inhalative	Long term (chronic)	local	246.00	mg/m <sup>3</sup>
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/m <sup>3</sup>
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	

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dermal	Short term (acut)	local	161	µg/cm²
inhalative	Long term (chronic)	systemic	5.98	mg/m³

No	Substance name			CAS / EC	no
	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 n	0
	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 weight
	water	Aqua intermittent	5.77	mg/L
	soil	-	0.261	mg/kg dry

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				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/Ľ
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 prop	perties	
9.1 Information on basic physical and ch	emical properties	
Form/Colour		
liquid light yellow		
Odour		
fruity		
Odour threshold		
No data available		
pH value		
Not applicable		
Boiling point / boiling range Value	> 35 °C	
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 <sup>3</sup>	
Reference temperature	20 °C	
Solubility in water Comments	miscible	
Commonto		

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Solu	Solubility(ies)						
No c	lata 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		
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			
Refe	erence temperature			25	°C		
Meth	nod	OECD 107					
Sou	rce	ECHA					
Vier							
	osity	T					
Valu	e	<	7	mm²/s			
Refe	erence temperature		40	°C			
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

Acu	Acute oral toxicity (result of the ATE calculation for the mixture)						
No	Product Name						
1	Duftstoff Citrone						
Com	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
LD50			1746	mg/kg bodyweight
Species	rat			
Method	OECD 401			
Source	ECHA			
2 Orange, sweet, ext.		8028-48-6		232-433-8
LD50	>		5000	mg/kg bodyweight
Species	rat			
3 citral		5392-40-5		226-394-6
LD50	appr.		6800	mg/kg bodyweight
Species	rat			
Method	BASF-Test			
Source	ECHA			
4 7-methyl-3-methyleneocta-1,6-diene	1	123-35-3		204-622-5
LD50	>		3380	mg/kg bodyweight
Species	rat			
Method		e lethal dose me	ethod (Deich	mann WB and LeBlanc TJ,
	1943			
Source	ECHA			
Acute dermal toxicity (result of the ATE calc	ulation for th	e mixture)		
No Product Name		ie illixturej		
1 Duftstoff Citrone				
Comments	The result of	the applied ca	culation met	thod according to the
Comments				CLP), Paragraph 3.1.3.6,
				that imply a classification /
				le 3.1.1 defining the
		ategories (ATE		
	respective of			
Acute dermal toxicity				
No Substance name		CAS no.		EC no.
No         Substance name           1         2-butoxyethanol		CAS no. 111-76-2		203-905-0
No         Substance name           1         2-butoxyethanol           LD50	>		2000	
No     Substance name       1     2-butoxyethanol       LD50     Species	guinea pig		2000	203-905-0
No         Substance name           1         2-butoxyethanol           LD50         Species           Method         Image: Species	guinea pig OECD 402		2000	203-905-0
No         Substance name           1         2-butoxyethanol           LD50         Species           Method         Source	guinea pig	111-76-2	2000	203-905-0 mg/kg bodyweight
No     Substance name       1     2-butoxyethanol       LD50     Species       Method     Source       2     Orange, sweet, ext.	guinea pig OECD 402 ECHA			203-905-0 mg/kg bodyweight 232-433-8
No     Substance name       1     2-butoxyethanol       LD50     Species       Method     Source       2     Orange, sweet, ext.       LD50	guinea pig OECD 402 ECHA	111-76-2	2000	203-905-0 mg/kg bodyweight
No     Substance name       1     2-butoxyethanol       LD50     Species       Method     Source       2     Orange, sweet, ext.       LD50     Species	guinea pig OECD 402 ECHA	111-76-2 8028-48-6		203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight
No     Substance name       1     2-butoxyethanol       LD50     Species       Method     Source       2     Orange, sweet, ext.       LD50     Species       3     citral	guinea pig OECD 402 ECHA > rabbit	111-76-2	5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6
No     Substance name       1     2-butoxyethanol       LD50     Species       Method     Source       2     Orange, sweet, ext.       LD50     Species       3     citral       LD50	guinea pig OECD 402 ECHA > rabbit	111-76-2 8028-48-6		203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight
No     Substance name       1     2-butoxyethanol       LD50     Species       Method     Source       2     Orange, sweet, ext.       LD50     Species       3     citral       LD50     Species	guinea pig OECD 402 ECHA > rabbit > rabbit	111-76-2 8028-48-6	5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         Method       Source	guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test	111-76-2 8028-48-6	5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         Species       Species         Species       Species         0       Species	guinea pig OECD 402 ECHA > rabbit > rabbit	111-76-2 8028-48-6 5392-40-5	5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         4       7-methyl-3-methyleneocta-1,6-diene	guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA	111-76-2 8028-48-6	5000 2000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         4       7-methyl-3-methyleneocta-1,6-diene         LD50       LD50	guinea pig OECD 402 ECHA > rabbit BASF-Test ECHA >	111-76-2 8028-48-6 5392-40-5	5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species	guinea pig OECD 402 ECHA rabbit > rabbit BASF-Test ECHA > rabbit	111-76-2 8028-48-6 5392-40-5	5000 2000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source	guinea pig OECD 402 ECHA > rabbit BASF-Test ECHA > rabbit OECD 402	111-76-2 8028-48-6 5392-40-5	5000 2000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species	guinea pig OECD 402 ECHA rabbit > rabbit BASF-Test ECHA > rabbit	111-76-2 8028-48-6 5392-40-5	5000 2000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source	guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA	111-76-2 8028-48-6 5392-40-5 123-35-3	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
NoSubstance name12-butoxyethanolLD50SpeciesMethodSource2Orange, sweet, ext.LD50Species3citralLD50SpeciesSpeciesSource47-methyl-3-methyleneocta-1,6-dieneLD50SpeciesMethodSource47-methyl-3-methyleneocta-1,6-dieneLD50SpeciesMethodSource	guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA	111-76-2 8028-48-6 5392-40-5 123-35-3	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         Acute inhalational toxicity (result of the ATE	guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA	111-76-2 8028-48-6 5392-40-5 123-35-3	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         Acute inhalational toxicity (result of the ATE         No       Product Name	guinea pig OECD 402 ECHA > rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA	111-76-2 8028-48-6 5392-40-5 123-35-3	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         Acute inhalational toxicity (result of the ATE         No       Product Name         1       Duftstoff Citrone	guinea pig OECD 402 ECHA rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA calculation	111-76-2 8028-48-6 5392-40-5 123-35-3	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         Acute inhalational toxicity (result of the ATE         No       Product Name         1       Duftstoff Citrone         ATE (Mixture)       State (Mixture)	guinea pig OECD 402 ECHA > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA calculation 3.0000 Dust/mist	111-76-2 8028-48-6 5392-40-5 123-35-3 for the mixture mg/l	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         Acute inhalational toxicity (result of the ATE         No       Product Name         1       Duftstoff Citrone         ATE (Mixture)       Route of exposure / physical from	guinea pig OECD 402 ECHA rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA calculation S.0000 Dust/mist Calculation r	111-76-2 8028-48-6 5392-40-5 123-35-3 for the mixture mg/l	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5 mg/kg bodyweight
No       Substance name         1       2-butoxyethanol         LD50       Species         Method       Source         2       Orange, sweet, ext.         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         3       citral         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         4       7-methyl-3-methyleneocta-1,6-diene         LD50       Species         Method       Source         Acute inhalational toxicity (result of the ATE         No       Product Name         1       Duftstoff Citrone         ATE (Mixture)       Route of exposure / physical from	guinea pig OECD 402 ECHA rabbit > rabbit BASF-Test ECHA > rabbit OECD 402 ECHA calculation S.0000 Dust/mist Calculation r	111-76-2 8028-48-6 5392-40-5 123-35-3 for the mixture mg/l nethod accord	5000 2000 5000	203-905-0 mg/kg bodyweight 232-433-8 mg/kg bodyweight 226-394-6 mg/kg bodyweight 204-622-5 mg/kg bodyweight

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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	
	ation of exposure			4	h	
	e of aggregation	Dust/mist				
Spe	cies	rat				
Skir	o corrosion/irritation					
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
	ation of exposure			4	h	
Spe		rabbit				
Metl		EU B.4				
Sou		ECHA				
	uation	irritant				
2	7-methyl-3-methyleneocta-1,6-diene	T	123-35-3		204-622-5	
Spe		Human				
Met			ocol version 1.	8 of february	/ 2009	
Sou		ECHA				
	uation	irritant				
Eva	uation/classification	Based on av	ailable data, th	e classificati	on criteria are met.	
Seri	ous eye damage/irritation					
	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
Dura	ation of exposure			24	h	
Spe		rabbit				
Met		OECD 405				
Sou		ECHA				
Eval	luation	Irritating to e	eyes			
2	Orange, sweet, ext.		8028-48-6		232-433-8	
Spe		rabbit				
Metl		OECD 405				
Eval	uation	non-irritant				
3	citral		5392-40-5		226-394-6	
Spe	cies	rabbit				
Metl		OECD 405				
Sou	rce	ECHA				
Eval	uation	irritant				
4	7-methyl-3-methyleneocta-1,6-diene	• 	123-35-3		204-622-5	
Spe		rabbit				
Met		OECD 405				
Sou		ECHA				
	uation	Irritating to e				
Eva	uation/classification	Based on av	ailable data, th	e classificati	on criteria are met.	
Res	piratory or skin sensitisation					
	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
Rou	te of exposure	Skin				
Spe		guinea pig				
Metl		OECD 406				
Sou		ECHA				
	luation	non-sensitizi	ing			
2	citral		5392-40-5		226-394-6	
	te of exposure	Skin				
Rou						-
	•	guinea pig				
Spe	cies	guinea pig OFCD 406				
	cies nod	guinea pig OECD 406 ECHA				

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Region: GB

	luation	non-sensitizing 123-35-3	004 CCC E
3	7-methyl-3-methyleneocta-1,6-diene		204-622-5
	te of exposure	Skin	
	cies	mouse	
Met		OECD 429	
Sou		ECHA	
	luation	non-sensitizing	
Eva	luation/classification	Based on available data, the clas	sification criteria are met.
Ger	m cell mutagenicity		
	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Met	hod	OECD 471	
Sou	rce	ECHA	
	luation/classification	Based on available data, the clas	sification criteria are not met
2	citral	5392-40-5	226-394-6
			220-394-0
Met		OECD 471	
Sou		ECHA	- Min - Air on anita - nia ( )
	luation/classification	Based on available data, the clas	
3	7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5
	e of examination	Bacterial Reverse Mutation Test	
Spe		Salmonella typhimurium TA98, TA	A100, TA1535, TA1537
Met	hod	OECD 471	
Sou	rce	ECHA	
Eva	luation/classification	Based on available data, the clas	sification criteria are met.
Rou	te of exposure	oral	
	e of examination	In vivo mammalian somatic cell s	tudy: cytogenicity / erythrocyte
1,2 1	e e. e. anninación		
		micronucleus	
Sno	cies	micronucleus	
		mouse	
Met	hod	mouse OECD 474	
Met Sou	hod rce	mouse OECD 474 ECHA	offication oritoric are not mat
Met Sou	hod	mouse OECD 474	sification criteria are not met.
Sou Eva	hod rce	mouse OECD 474 ECHA Based on available data, the clas	
Metl Sou Eval <b>Rep</b> No	hod rce luation/classification roduction toxicity Substance name	mouse OECD 474 ECHA Based on available data, the clas CAS no.	EC no.
Rep No 1	hod rce luation/classification roduction toxicity Substance name citral	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5	
Meti Sou Eva <b>Rep</b> No 1 Meti	hod rce luation/classification roduction toxicity Substance name citral hod	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414	EC no.
Met Sou Eva Rep No 1 Met Sou	hod rce luation/classification roduction toxicity Substance name citral hod rce	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA	EC no. 226-394-6
Met Sou Eva Rep No 1 Met Sou	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414	EC no. 226-394-6
Meti Sou Eval <b>Rep</b> No 1 Meti Sou Eval	hod rce luation/classification roduction toxicity Substance name citral hod rce	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA	EC no. 226-394-6
Met Sou Eval <b>Rep</b> No 1 Met Sou Eval <b>2</b>	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas	EC no. 226-394-6 sification criteria are not met.
Met Sou Eval <b>Rep</b> No 1 Met Sou Eval <b>2</b> Rou	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3	EC no. 226-394-6 sification criteria are not met.
Met Sou Eva <b>Rep</b> No 1 Met Sou Eva Eva Spe	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat	EC no. 226-394-6 sification criteria are not met.
Met Sou Eval <b>Rep</b> No 1 Met Sou Eval 2 Rou Spe Met	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415	EC no. 226-394-6 sification criteria are not met.
Metl Sou Eva <b>Rep</b> No 1 Metl Sou Spe Metl Sou	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA	EC no. 226-394-6 sification criteria are not met. 204-622-5
Met Sou Eva Rep No 1 Met Sou Eva Spe Met Sou Eva	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415	EC no. 226-394-6 sification criteria are not met. 204-622-5
Meti Sou Eva No 1 Meti Sou Eva Spe Meti Sou Eva Car	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cinogenicity	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met.
Metil Souu Eva Rep No 1 Metil Souu Eva Spe Metil Souu Eva Care No	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cinogenicity Substance name	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no.
Metil Sou Eva No 1 Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Eva 1 Caro No 1	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cinogenicity Substance name 2-butoxyethanol	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas CAS no. 111-76-2	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met.
Meti Sou Eva Rep No 1 Meti Sou Eva Spe Meti Sou Eva Care No 1 Spe	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cinogenicity Substance name 2-butoxyethanol cies	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas CAS no. 111-76-2 rat	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no.
Meti Sou Eva Rep No 1 Meti Sou Eva Spe Meti Sou Eva Caro No 1 Spe Meti	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cies hod rce luation/classification	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas CAS no. 111-76-2 rat OECD 451	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no.
Metil Sou Eva Rep No 1 Metil Sou Eva Spe Metil Sou Eva Caro No 1 Spe Metil Sou Eva Sou Eva Sou Eva Sou Eva	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cies hod rce luation/classification cies hod rce	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas CAS no. 111-76-2 rat OECD 451 ECHA	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no. 203-905-0
Metil Sou Eva Rep No 1 Metil Sou Eva Spe Metil Sou Eva Caro No 1 Spe Metil Sou Eva Sou Eva Sou Eva Sou Eva	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cies hod rce luation/classification	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas CAS no. 111-76-2 rat OECD 451	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no. 203-905-0
Metil Sou Eva No 1 Metil Sou Eva Spe Metil Sou Eva Carro No 1 Spe Metil Sou Eva Spe Spe Spe Spe Spe	hod rce luation/classification roduction toxicity Substance name citral hod rce luation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce luation/classification cies hod rce luation/classification cies hod rce	mouse OECD 474 ECHA Based on available data, the clas CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the clas 123-35-3 oral rat OECD 415 ECHA Based on available data, the clas CAS no. 111-76-2 rat OECD 451 ECHA	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no. 203-905-0
Metil Sou Eva No 1 Metil Sou Eva Spe Metil Sou Eva Caro No 1 Spe Metil Sou Eva 2 Spe Spe 2 Spe Spe Spe 2 S Spe 2 S Spe 2 S Spe 2 S Spe 2 S Spe Spe 2 S Spe 2 S Spe 2 S Spe 2 S Spe 2 S Spe 2 S Spe S Spe 2 S Spe 2 S Spe S S Sp S S S S	hod rce uation/classification roduction toxicity Substance name citral hod rce uation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce uation/classification cinogenicity Substance name 2-butoxyethanol cies hod rce uation/classification citral	mouse OECD 474 ECHA Based on available data, the class CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the class OECD 415 ECHA Based on available data, the class CAS no. CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the class S392-40-5	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no. 203-905-0 sification criteria are not met.
Metil Sou Eva No 1 Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Eva Metil Sou Eva Mo 1 Metil Sou Eva Mo 1 Mo 1 Mo 1 Metil Sou Spe Spe Metil Sou Spe Spe Metil Sou Spe Spe Spe Spe Metil Spe Spe Spe Spe Spe Spe Spe Spe Spe Spe	hod rce uation/classification roduction toxicity Substance name citral hod rce uation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce uation/classification cinogenicity Substance name 2-butoxyethanol cies hod rce uation/classification citral hod	mouse OECD 474 ECHA Based on available data, the class CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the class oral rat OECD 415 ECHA Based on available data, the class CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the class 5392-40-5 OECD 453	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. EC no. 203-905-0 sification criteria are not met.
Metil Sou Eva No 1 Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Eva Spe Metil Sou Spe Spe Spe Spe Spe Spe Spe Spe Spe Spe	hod rce uation/classification roduction toxicity Substance name citral hod rce uation/classification 7-methyl-3-methyleneocta-1,6-diene te of exposure cies hod rce uation/classification cinogenicity Substance name 2-butoxyethanol cies hod rce uation/classification citral hod	mouse OECD 474 ECHA Based on available data, the class CAS no. 5392-40-5 OECD 414 ECHA Based on available data, the class OECD 415 ECHA Based on available data, the class CAS no. CAS no. 111-76-2 rat OECD 451 ECHA Based on available data, the class S392-40-5	EC no. 226-394-6 sification criteria are not met. 204-622-5 sification criteria are not met. 203-905-0 sification criteria are not met. 226-394-6

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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				
Met	nod	OECD 408				
Sou	rce	ECHA				
Eva	uation/classification	Based on available data, the classification criteria are not met.				

No data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxi	icity to fish (acute)				
No	Substance name	CAS		EC no.	
1	2-butoxyethanol	111-1		203-905-0	
LC5		>	1474	mg/l	
Dura	ation of exposure		96	h	
Spe	cies	Oncorhynchus my	kiss		
Meth	hod	OECD 203			
Sou		ECHA			
2	Orange, sweet, ext.	8028	3-48-6	232-433-8	
LC5			0.7	mg/l	
	ation of exposure		96	h	
	cies	Pimephales prome	las		
Meth		OECD 203			
3	citral	5392	2-40-5	226-394-6	
LC5			6.78	mg/l	
	ation of exposure		96	h	
Spe		Leuciscus idus			
Meth		DIN 38412			
Sou	rce	ECHA			
Τοχί	icity to fish (chronic)				
	Substance name	CAS	no.	EC no.	
1	2-butoxyethanol	111-		203-905-0	_
NOE		>	100	mg/l	_
	ation of exposure		21	day(s)	
	cies	Danio rerio		5( )	
Metł		OECD 204			
Sou	rce	ECHA			
Tovi	icity to Daphnia (acute)	·			
	Substance name	CAS	no	EC no.	
1	2-butoxyethanol	111-		203-905-0	
EC5	,	111-	1550		
	ation of exposure		48	h	
Spe		Daphnia magna	40	Ш	
Meth		OECD 202			
Sou		ECHA			
2	Orange, sweet, ext.		3-48-6	232-433-8	
EC5		0020	0.67	mg/l	
	ation of exposure		48	h	
Spe		Daphnia magna	10		
	rce	OECD 202			
Sou					

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3 citral	5392-40-5		226-394-6
EC50		6.8	mg/l
Duration of exposure		48	h
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		
Vethod	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		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
<b>—</b> • • • • • • • • • • • • • • • • • • •			
Toxicity to algae (acute) No Substance name	CAS no.		EC no.
1 2-butoxyethanol	111-76-2		203-905-0
EC50	111-76-2	011	
EC50 Duration of exposure		911 72	mg/l h
Species	Pseudokirchneriella subcapi		n
Method	OECD 201	lala	
Source	ECHA		
2 Orange, sweet, ext.	8028-48-6		232-433-8
ErC50	0020-40-0	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		72	h
Species	Desmodesmus subspicatus		
Method	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 subcapi	tata	
Source	OECD 201		
Toxicity to algae (chronic)			
No data available			
Bacteria toxicity			
No data available			

# 12.2 Persistence and degradability

NoSubstance nameCAS no.EC no.12-butoxyethanol111-76-2203-905-0	040	
	ince name CAS no. EC no.	
	kyethanol 111-76-2 203-90	. <b>0</b>
Type aerobic biodegradation	aerobic biodegradation	
Value 90.4 %	90.4	)
Duration 28 day(s)	28	ay(s)

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# Pr

Source

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Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		
2 Orange, sweet, ext.	8028-48-6		232-433-8
Value	72 -	83.4	%
Duration		28	day(s)
Method	OECD 301 B		
Evaluation	readily biodegradable		
3 citral	5392-40-5		226-394-6
Туре	BSB		
Value	>	90	%
Duration		28	day(s)
Method	92/69/EEC, C.4-C		

ECHA

#### 12.3 Bioaccumulative potential

oncentration factor (BCF)				
Substance name		CAS no.		EC no.
Orange, sweet, ext.		8028-48-6		232-433-8
	32	-	156	
ition coefficient: n-octanol/water				
Substance name		CAS no.		EC no.
2-butoxyethanol		111-76-2		203-905-0
Pow			0.81	
rence temperature			25	°C
ce	ECHA			
Orange, sweet, ext.		8028-48-6		232-433-8
Pow	>=		4	
citral		5392-40-5		226-394-6
Pow			2.76	
rence temperature			25	°C
nod	OECD 107			
ce	ECHA			
	ition coefficient: n-octanol/water Substance name 2-butoxyethanol Pow erence temperature ce	Substance name       32         Orange, sweet, ext.       32         ition coefficient: n-octanol/water       32         Substance name       2-butoxyethanol         2-butoxyethanol       20         Pow       ECHA         Orange, sweet, ext.       >=         Pow       >=         citral       20         Pow       octobe         OECD 107       0	Substance name       CAS no.         Orange, sweet, ext.       8028-48-6         32       -         ition coefficient: n-octanol/water       32         Substance name       CAS no.         2-butoxyethanol       111-76-2         Pow       -         rence temperature       ECHA         Orange, sweet, ext.       8028-48-6         Pow       >=         citral       5392-40-5         Pow       -         rence temperature       OECD 107	Substance nameCAS no.Orange, sweet, ext.8028-48-632-32-32-156ition coefficient: n-octanol/waterSubstance nameCAS no.2-butoxyethanol111-76-2Pow0.81rence temperature25receECHAOrange, sweet, ext.8028-48-6Pow>=4citral5392-40-5Pow2.76rence temperature25odOECD 107

# 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**

#### Product no.: 167999

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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
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	3
Packing group	
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)

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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: 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

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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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