Trade name: Duftstoff Orange

**Product no.:** 166999

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

#### 1.1 Product identifier

Trade name

#### **Duftstoff Orange**

#### 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 Appex Lto 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









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GHS02 GHS07 GHS08 GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label:

2-butoxyethanol Orange, sweet, ext.

3,7,7-trimethylbicyclo[4.1.0]hept-3-ene

geraniol linalyl acetate

alpha-hexylcinnamaldehyde

nerol

2-(4-tert-butylbenzyl) propionaldehyde

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.

P261 Avoid breathing vapours/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P331 Do NOT induce vomiting.

#### 2.3 Other hazards

PBT assessment

One or more components of this product are classified as PBT.

vPvB assessment

One or more components of this product are classified as 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		Additi	onal information	า	
	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.					

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	T		_			
	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	benzyl alcohol	Aquatic Acute 1, H400				
3	100-51-6	Acute Tox. 4; H302	>=	5.00 - <	10.00	\\/t <sup>0</sup> / <sub>0</sub>
	202-859-9	Acute Tox. 4; H332	-	3.00 - 1	10.00	WL/U
	603-057-00-5	Eye Irrit. 2; H319				
	01-2119492630-38					
4	linalool					
	78-70-6	Skin Irrit. 2; H315	<	5.00		wt%
	201-134-4	Eye Irrit. 2; H319				
	603-235-00-2	Skin Sens. 1B; H317				
	01-2119474016-42					
5	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	leid d Olbert 2 ene				
6		Clo[4.1.0]hept-3-ene		2.50		w#0/
	13466-78-9 236-719-3	Asp. Tox. 1; H304 Flam. Liq. 3; H226	<	2.50		wt%
	230-7 19-3	Skin Sens. 1; H317				
	_	Skin Irrit. 2; H315				
7	geraniol	- Committee 2, 11010	pls. re	efer to footnote (	2)	
•	106-24-1	Eye Dam. 1; H318	<	2.50	_,	wt%
	203-377-1	Skin Irrit. 2; H315				
	603-241-00-5	Skin Sens. 1; H317				
	01-2119552430-49					
8	linalyl acetate					
	115-95-7	Skin Irrit. 2; H315	<	2.50		wt%
	204-116-4	Eye Irrit. 2; H319				
	-	Skin Sens. 1; H317				
	01-2119454789-19					
9	alpha-hexylcinnam			0.50		w#0/
	101-86-0 202-983-3	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	<	0.50		wt%
	202-303-3	Skin Sens. 1B; H317				
	01-2119533092-50	J. 1011				
10	2,6-di-tert-butyl-p-d	resol				
	128-37-0	Aquatic Acute 1; H400	<	0.50		wt%
	204-881-4	Aquatic Chronic 1; H410		-		
	-					
1		I .	1			l
	-					
11	- nerol					
11	106-25-2	Skin Irrit. 2; H315	<	0.50		wt%
11		Eye Dam. 1; H318	<	0.50		wt%
11	106-25-2 203-378-7 -	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	<	0.50		wt%
	106-25-2 203-378-7 - 01-2119983244-33	Eye Dam. 1; H318 Skin Sens. 1B; H317	<	0.50		wt%
11	106-25-2 203-378-7 - 01-2119983244-33 <b>2-(4-tert-butylbenz</b> )	Eye Dam. 1; H318 Skin Sens. 1B; H317 /I) propionaldehyde				
	106-25-2 203-378-7 - 01-2119983244-33 <b>2-(4-tert-butylbenz</b> ) 80-54-6	Eye Dam. 1; H318 Skin Sens. 1B; H317  /I) propionaldehyde Acute Tox. 4; H302	<	0.50		wt%
	106-25-2 203-378-7 - 01-2119983244-33 <b>2-(4-tert-butylbenzy</b> 80-54-6 201-289-8	Eye Dam. 1; H318 Skin Sens. 1B; H317  /I) propionaldehyde Acute Tox. 4; H302 Aquatic Chronic 2; H411				
	106-25-2 203-378-7 - 01-2119983244-33 <b>2-(4-tert-butylbenzy</b> 80-54-6 201-289-8 605-041-00-3	Eye Dam. 1; H318 Skin Sens. 1B; H317  /I) propionaldehyde Acute Tox. 4; H302 Aquatic Chronic 2; H411 Repr. 2; H361f				
	106-25-2 203-378-7 - 01-2119983244-33 <b>2-(4-tert-butylbenzy</b> 80-54-6 201-289-8	Eye Dam. 1; H318 Skin Sens. 1B; H317  /I) propionaldehyde Acute Tox. 4; H302 Aquatic Chronic 2; H411				

Full Text for all H-phrases and EUH-phrases: pls. see section 16

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(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

Acute toxicity estimate (ATE) values					
No	oral	dermal	inhalative		
1	1746 mg/kg bodyweight				
3	1620 mg/kg bodyweight				

#### **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. If unconscious place in recovery position and seek medical advice. 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). Seek medical assistance.

#### After ingestion

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

#### 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**

#### 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 protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

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#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources. Do not inhale vapours.

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

#### Recommended storage temperature

Value Room temperature

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Incompatible products

Substances to be avoided, see section 10.

#### 7.3 Specific end use(s)

No data available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
	2000/39/EC				
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m³	50	ppm

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1	10. The state of t	1					
	WEL long-term (8-hr TWA reference period)	98	mg/m³	20	ppm		
	Skin resorption / sensibilisation	Skin					
	List of approved workplace exposure limits (WELs) / E	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					
2	2,6-di-tert-butyl-p-cresol	128-37-0		204-881-4			
	List of approved workplace exposure limits (WELs) / EH40						
	2,6-Ditertiary-butyl-para-cresol		_				
	WEL long-term (8-hr TWA reference period)	10	mg/m³		•		

#### **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			
	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	benzyl alcohol			100-51-6			
				202-859-9			
	dermal	Long term (chronic)	systemic	8	mg/kg/day		
	dermal	Short term (acut)	systemic	40	mg/kg/day		
	inhalative	Long term (chronic)	systemic	22	mg/m³		
	inhalative	Short term (acut)	systemic	110	mg/m³		
4	linalool			78-70-6			
				201-134-4			
	dermal	Long term (chronic)	systemic	3.5	mg/kg/day		
	dermal	Long term (chronic)	local	3	mg/cm²		
	dermal	Short term (acut)	local	3	mg/cm²		
	inhalative	Long term (chronic)	systemic	24.58	mg/m³		
5	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		
6	alpha-hexylcinnamaldehy	rde		101-86-0			
				202-983-3			
	dermal	Long term (chronic)	systemic	18.2	mg/kg/day		
	dermal	Long term (chronic)	local	525	μg/cm²		
	dermal	Short term (acut)	local	525	μg/cm²		
	inhalative	Long term (chronic)	systemic	0.078	mg/m³		
	inhalative	Short term (acut)	local	6.28	mg/m³		
7	2-(4-tert-butylbenzyl) proj	pionaldehyde		80-54-6			
				201-289-8			
	dermal	Long term (chronic)	systemic	2.075	mg/kg/day		
	dermal	Long term (chronic)	local	410	μg/cm²		
	inhalative	Long term (chronic)	systemic	0.44	mg/m³		

**DNEL value (consumer)** 

No   Substance name   CAS / EC no
-----------------------------------

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	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
	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.	1 3 (	1	8028-48-6	
	oral	Long torm (obrania)		<b>232-433-8</b> 4.44	mg/kg/day
	dermal	Long term (chronic)  Long term (chronic)		4.44	mg/kg/day
	dermal	Short term (acut)		92.9	μg/cm²
				7.78	
3	inhalative benzyl alcohol	Long term (chronic)		100-51-6	mg/m³
				202-859-9	
	oral	Long term (chronic)	systemic	4	mg/kg/day
	oral	Short term (acut)	systemic	20	mg/kg/day
	dermal	Long term (chronic)	systemic	4	mg/kg/day
	dermal	Long term (chronic)	systemic	20	mg/kg/day
	inhalative	Long term (chronic)	systemic	5.4	mg/m³
	inhalative	Short term (acut)	systemic	4	mg/m³
1	linalool			78-70-6 201-134-4	<i>-</i>
	oral	Short term (acut)	systemic	1.2	mg/kg/day
	dermal	Short term (acut)	systemic	2.5	mg/kg/day
	dermal	Long term (chronic)	local	1.5	mg/cm²
	dermal	Short term (acut)	local	1.5	mg/cm²
	inhalative	Long term (chronic)	systemic	4.33	mg/m³
5	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
3	alpha-hexylcinnamald		, ,	101-86-0 202-983-3	
	oral	Long term (chronic)	systemic	0.056	mg/kg/day
	dermal	Long term (chronic)	systemic	9.11	mg/kg/day
	dermal	Long term (chronic)	local	78.7	μg/cm²
	inhalative	Long term (chronic)	systemic	0.019	mg/m³
	inhalative	Short term (acut)	local	4.71	mg/m³
7	2-(4-tert-butylbenzyl) propionaldehyde			80-54-6 201-289-8	V
	oral	Long term (chronic)	systemic	0.062	mg/kg/day
	dermal	Long term (chronic)	systemic	1.038	mg/kg/day
	dermal	Long term (chronic)	local	410	μg/cm²
	dermal	Short term (acut)	local	410	μg/cm²
	inhalative	Long term (chronic)	systemic	0.11	mg/m³

#### **PNEC values**

	FINEO 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				

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	with reference to: dry weight			
	water	marine water sediment	3.46	mg/kg
	water	Agua intermittent	26.4	mg/L
	soil	- '	2.33	mg/kg dry
				weight
	sewage treatment plant	-	463.00	mg/L
	secondary poisoning	-	0.02	mg/kg food
2	Orange, sweet, ext.	·	8028-48-6	<u> </u>
			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
			0.201	weight
_	sewage treatment plant	-	2.1	mg/L
	secondary poisoning	-	13.3	mg/kg
	with reference to: food		1 . 0.0	···· <del>·</del>
	benzyl alcohol		100-51-6 202-859-9	
	water	fresh water	1	mg/L
	water	marine water	0.1	mg/L
	water	Aqua intermittent	2.3	mg/L
	water	fresh water sediment	5.27	mg/kg
	with reference to: dry weight	moon water oddiniont	0.21	mg/kg
	water with reference to: dry weight	marine water sediment	0.527	mg/kg
	soil	-	0.456	mg/kg
	with reference to: dry weight	-	0.430	mg/kg
	sewage treatment plant	-	39	mg/L
	linalool		78-70-6	mg/L
	maiooi		201-134-4	
	water	fresh water	0.2	mg/L
	water	marine water	0.02	mg/L
	water	Aqua intermittent	2	mg/L
	water	fresh water sediment	2.22	mg/kg dry
		noon nater oodiniont		weight
	water	marine water sediment	0.222	mg/kg dry weight
	soil	-	0.327	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	7.8	mg/kg food
	citral		5392-40-5 226-394-6	9,119 1000
	water	fresh water	0.007	mg/L
	water	marine water	0.007	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
_			1.6	weight mg/L

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6	alpha-hexylcinnamaldehyde		101-86-0 202-983-3	
	water	fresh water	0.001	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	3.2	mg/kg dry weight
	water	marine water sediment	0.064	mg/kg dry weight
	soil	-	0.398	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	6.6	mg/kg food
7	2-(4-tert-butylbenzyl) propionaldehyde		80-54-6	
			201-289-8	
	water	fresh water	0.002	mg/L
	water	marine water	0	mg/L
	water	Aqua intermittent	0.024	mg/L
	water	fresh water sediment	0.269	mg/kg dry weight
	water	marine water sediment	0.027	mg/kg dry weight
	soil	-	0.052	mg/kg dry weight
	sewage treatment plant	-	10	mg/L

#### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

#### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Filter A or environment-independent breathing apparatus.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Material thickness >= 0.5 mm
Breakthrough time > 120 min

#### Other

Chemical-resistant work clothes.

#### **Environmental exposure controls**

No data available.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

State of aggregation

Trade name: Duftstoff Orange

**Product no.: 166999** 

**Current version :** 1.0.0, issued: 27.04.2022 **Replaced version:** 1.0.0, issued: 26.11.2020 **Region:** GB

liquid

Form/Colour liquid

orange

Odour fruity

pH value

Not applicable

Boiling point / boiling range

No data available

Melting point/freezing point

No data available

**Decomposition temperature** 

No data available

Flash point

Value > 55 °C

Ignition temperature

No data available

**Explosive properties** 

The product is not explosive. Formation of explosive/highly flammable air-vapour mixtures is possible during/after use.

**Flammability** 

No data available

Lower explosion limit

No data available

**Upper explosion limit** 

No data available

Vapour pressure

Value < 106 hPa Reference temperature < 50 °C

Relative vapour density

No data available

Relative density

No data available

Density

Value 0.89 g/cm³
Reference temperature 20 °C

Solubility in water

Comments miscible

Solubility

No data available

Part	Partition coefficient n-octanol/water (log value)							
No	Substance name		CAS no.		EC no.			
1	2-butoxyethanol		111-76-2		203-905-0			
log F	Pow			0.81				
Refe	erence temperature			20	°C			
Method		calculated						
Sour	rce	ECHA						

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2	Orange, sweet, ext.		8028-48-6		232-433-8	
log	Pow	>=		4		
3	benzyl alcohol		100-51-6		202-859-9	
log	Pow			1.05		
Ref	erence temperature			20	°C	
Sou	ırce	ECHA				
4	linalool		78-70-6		201-134-4	
log	Pow			2.84		
Ref	erence temperature			20	°C	
Met	hod	OECD 107				
Sou	ırce	ECHA				
5	citral		5392-40-5		226-394-6	
	Pow			2.76		
	erence temperature			25	°C	
Met	hod	OECD 107				
Sou	ırce	ECHA				
6	alpha-hexylcinnamaldehyde		101-86-0		202-983-3	
log	Pow	appr.		5.3		
Ref	erence temperature			24	°C	
Met	thod	OECD 117				
Sou	ırce	ECHA				
7	2,6-di-tert-butyl-p-cresol		128-37-0		204-881-4	
log	Pow			4.362		
Kin	ematic viscosity					
Val		<	7	mm²/s		

value	<	
Reference temperature	40 °C	
Туре	kinematic	

### Particle characteristics No data available

#### 9.2 Other information

Other information	
No data available.	

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

#### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

#### 10.4 Conditions to avoid

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (result of the ATE calculation for the mixture)

Trade name: Duftstoff Orange

**Product no.:** 166999

No	Product Name	
1	Duftstoff Orange	
Com		The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity					
No	Substance name		CAS no.		EC no.
1	2-butoxyethanol		111-76-2		203-905-0
LD5	0			1746	mg/kg bodyweight
Spe		rat			
Meth		OECD 401			
Sou		ECHA			
2	Orange, sweet, ext.		8028-48-6		232-433-8
LD5	0	>		5000	mg/kg bodyweight
Spe		rat			
3	benzyl alcohol		100-51-6		202-859-9
LD5	0	=		1620	mg/kg bodyweight
Spe		rat			
Sou	rce	ECHA			
4	linalool		78-70-6		201-134-4
LD5	0			2790	mg/kg bodyweight
Spe		rat			
Meth		OECD 401			
Sou		ECHA			
5	citral		5392-40-5		226-394-6
LD5	0	appr.		6800	mg/kg bodyweight
Spe		rat			
Meth	hod	BASF-Test			
Sou	rce	ECHA			

Acu	Acute dermal toxicity (result of the ATE calculation for the mixture)					
No	Product Name					
1	Duftstoff Orange					
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 dermal > 2000 mg/kg).				

Acu	Acute dermal toxicity					
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
LD5	0	>		2000	mg/kg bodyweight	
Spec Meth Sour	nod	guinea pig OECD 402 ECHA				
2	Orange, sweet, ext.		8028-48-6		232-433-8	
LD5	0	>		5000	mg/kg bodyweight	
Spe	cies	rabbit				
3	linalool		78-70-6		201-134-4	
LD5	0			5610	mg/kg bodyweight	
Spe	cies	rabbit				
Meth	nod	OECD 402				
Soul	rce	ECHA				
4	citral		5392-40-5		226-394-6	
LD5	0	>		2000	mg/kg bodyweight	
Spe	cies	rabbit				

Trade name: Duftstoff Orange

**Product no.: 166999** 

Method	BASF-Test
Source	ECHA

Acu	Acute inhalational toxicity (result of the ATE calculation for the mixture)						
No	Product Name						
1	Duftstoff Orange						
ATE	(Mixture)	2.8351 mg/l					
Rout	te of exposure / physical from	Dust/mist					
Meth	nod	Calculation method according Regulation (EC) No 1272/2008,					
		(CLP), annex I, part 3, section 3.1.3.6.					

Acu	Acute inhalational toxicity						
No	Substance name		CAS no.		EC no.		
1	2-butoxyethanol		111-76-2		203-905-0		
ATE				1.5	mg/l		
Dura	tion of exposure			4	h		
	e of aggregation	Dust/mist					
Spe	cies	rat					
2	benzyl alcohol		100-51-6		202-859-9		
LC5	0	>		4.178	mg/l		
Dura	ition of exposure			4	h		
State	e of aggregation	mist					
Spe	cies	rat					
Meth	nod	OECD 403					
Soul	ce	ECHA					

Skin	Skin corrosion/irritation					
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
Dura	tion of exposure			4	h	
Spec	cies	rabbit				
Meth	nod	EU B.4				
Soul	ce	ECHA				
Eval	uation	irritant				
2	benzyl alcohol		100-51-6		202-859-9	
Spec	cies	rabbit				
Meth	nod	OECD 404				
Soul	ce	ECHA				
Eval	uation	non-irritant				
3	linalool		78-70-6		201-134-4	
Spec	cies	rabbit	•			
Meth	nod	OECD 404				
Soul	rce	ECHA				

Substance name		CAS no.		EC no.		
2-butoxyethanol		111-76-2		203-905-0		
tion of exposure			24	h		
ies	rabbit					
od	OECD 405					
ce	ECHA					
ıation	Irritating to ey	/es				
Orange, sweet, ext.		8028-48-6		232-433-8		
ies	rabbit					
od	OECD 405					
ıation	non-irritant					
benzyl alcohol		100-51-6		202-859-9		
ies	rabbit					
od	OECD 405					
ce	ECHA					
ıation	irritant					
	Substance name  2-butoxyethanol tion of exposure ies od ce uation  Orange, sweet, ext. ies od dation benzyl alcohol ies od ce uation	Substance name           2-butoxyethanol           tion of exposure           ies         rabbit           od         OECD 405           ce         ECHA           lrritating to ey           Orange, sweet, ext.         rabbit           od         OECD 405           nation         non-irritant           benzyl alcohol         rabbit           ies         rabbit           od         OECD 405           ce         ECHA	Substance name         CAS no.           2-butoxyethanol         111-76-2           tion of exposure         rabbit           ies         OECD 405           ce         ECHA           uation         Irritating to eyes           Orange, sweet, ext.         8028-48-6           ies         rabbit           od         OECD 405           uation         non-irritant           benzyl alcohol         100-51-6           ies         rabbit           od         OECD 405           ce         ECHA	Substance name         CAS no.           2-butoxyethanol         111-76-2           tion of exposure         24           ies         rabbit           od         OECD 405           ce         ECHA           uation         Irritating to eyes           Orange, sweet, ext.         8028-48-6           ies         rabbit           od         OECD 405           uation         non-irritant           benzyl alcohol         100-51-6           ies         rabbit           od         OECD 405           ce         ECHA	Substance name         CAS no.         EC no.           2-butoxyethanol         111-76-2         203-905-0           tion of exposure         24         h           ies         rabbit         OECD 405           ce         ECHA         Irritating to eyes           Orange, sweet, ext.         8028-48-6         232-433-8           ies         rabbit         OECD 405           od         OECD 405         non-irritant           benzyl alcohol         100-51-6         202-859-9           ies         od         OECD 405           ce         ECHA	

Trade name: Duftstoff Orange

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4	linalool		78-70-6	201-134-4	
Spe	cies	rabbi	t		
Meth	hod	OEC	D 405		
Sou	rce	ECH.	4		
5	citral		5392-40-5	226-394-6	
Spe	cies	rabbi	t		
Meth	hod	OEC	D 405		
Sou	rce	ECH.	4		
Eval	luation	irritar	nt		

Res	piratory or skin sensitisation					
No	Substance name	CAS no.	EC no.			
1	2-butoxyethanol	111-76-2	203-905-0			
Rou	te of exposure	Skin				
Spe	cies	guinea pig				
Metl	nod	OECD 406				
Sou	rce	ECHA				
Eval	uation	non-sensitizing				
2	linalool	78-70-6	201-134-4			
Rou	te of exposure	Skin				
Sou	rce	ECHA				
Eval	uation/classification	Based on available data, the	Based on available data, the classification criteria are met.			
3	citral	5392-40-5	226-394-6			
Rou	te of exposure	Skin				
Spe	cies	guinea pig				
Met	nod	OECD 406				
Sou	rce	ECHA				
Eval	uation	non-sensitizing				
4	alpha-hexylcinnamaldehyde	101-86-0	202-983-3			
Rou	te of exposure	Skin				
Spe	cies	mouse				
Met	nod	OECD 429				
Sou	rce	ECHA				
Eval	uation	strongly sensitizing				

Ger	m cell mutagenicity		
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Meth	nod	OECD 471	
Sou	rce	ECHA	
Eval	uation/classification	Based on available data, the classification	criteria are not met.
2	linalool	78-70-6	201-134-4
Sou	rce	ECHA	
Eval	uation/classification	Based on available data, the classification	criteria are not met.
3	citral	5392-40-5	226-394-6
Meth	nod	OECD 471	
Sou	rce	ECHA	
Eval	uation/classification	Based on available data, the classification	criteria are not met.

Rep	roduction toxicity		
No	Substance name	CAS no.	EC no.
1	citral	5392-40-5	226-394-6
Meth	nod	OECD 414	
Soul	rce	ECHA	
Eval	uation/classification	Based on available data, the classific	ation criteria are not met.

Card	cinogenicity		
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Spe	cies	rat	

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Meth	nod	OECD 451	
Source		ECHA	
Eval	luation/classification	Based on available data, the classification	r criteria are not met.
2	benzyl alcohol	100-51-6	202-859-9
Sou	rce	ECHA	
Eval	luation/classification	Based on available data, the classification	riteria are not met.
3	linalool	78-70-6	201-134-4
Sou	rce	ECHA	
Eval	luation/classification	Based on available data, the classification	riteria are not met.
4	citral	5392-40-5	226-394-6
Meth	nod	OECD 453	
Sou	rce	ECHA	
Eval	luation/classification	Based on available data, the classification	r criteria are not met.

### STOT - single exposure

No data available

STO	T - repeated exposure		
No	Substance name	CAS no.	EC no.
1	linalool	78-70-6	201-134-4
Soul	ce	ECHA	
Eval	uation/classification	Based on available data, the classification	n criteria are not met.

### Aspiration hazard No data available

#### 11.2 Information on other hazards

**Endocrine disrupting properties** 

No data available.

Other information

No data available.

#### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxicity to fish (acute)			
No Substance name	CAS no.		EC no.
1 2-butoxyethanol	111-76-2		203-905-0
LC50	>	1474	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
2 Orange, sweet, ext.	8028-48-6		232-433-8
LC50		0.7	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
3 benzyl alcohol	100-51-6		202-859-9
LC50		460	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA OPP 72-1		
Source	ECHA		
4 linalool	78-70-6		201-134-4
LC50		27.8	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		

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Soul	rce	ECHA		
5	citral	5392-40-5		226-394-6
LC5	0		6.78	mg/l
Dura	ation of exposure		96	h
Spe	cies	Leuciscus idus		
Meth	nod	DIN 38412		
Soul	rce	ECHA		
6	alpha-hexylcinnamaldehyde	101-86-0		202-983-3
LC5	0		1.7	mg/l
Dura	ation of exposure		96	h
Spe	cies	Pimephales promelas		
Meth	nod	OECD 203		
Soul	rce	ECHA		

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

Toxicity to Daphnia (acute)				
No Substance name	CAS no.		EC no.	
1 2-butoxyethanol	111-76-2		203-905-0	
EC50		690	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			
2 Orange, sweet, ext.	8028-48-6		232-433-8	
EC50		0.67	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Source	OECD 202			
3 benzyl alcohol	100-51-6		202-859-9	
EC50		230	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			
4 linalool	78-70-6		201-134-4	
EC50		59	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			
5 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			
6 alpha-hexylcinnamaldehyde	101-86-0		202-983-3	
EC50	0.36	- 0.59	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Metrod	ECHA			

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No	Substance name	CAS no.		EC no.
1	2-butoxyethanol	111-76-2		203-905-0
NOE	C		100	mg/l
Dura	ation of exposure		21	day(s)
Spe	cies	Daphnia magna		• • •
Met	hod	OECD 211		
Sou	rce	ECHA		
2	benzyl alcohol	100-51-6		202-859-9
NOE	EC		51	mg/l
Dura	ation of exposure		21	day(s)
Spe	cies	Daphnia magna		
Metl	hod	OECD 211		
Sou	rce	ECHA		
3	alpha-hexylcinnamaldehyde	101-86-0		202-983-3
NOE	EC		63	μg/l
Dura	ation of exposure		21	day(s)
Spe	cies	Daphnia magna		
Metl	hod	OECD 211		
_	rce	ECHA		

	icity to algae (acute)	CAC		FC ==	
	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
EC5			623	mg/l	
	ation of exposure	<b>1</b>	72	h	
Spe		Pseudokirchneriella subcapi	tata		
Metl		OECD 201			
Sou	<u> </u>	ECHA 2000 40.0		000 100 0	
2	Orange, sweet, ext.	8028-48-6		232-433-8	
ErC			150	mg/l	
	ation of exposure		72	h	
Spe		Desmodesmus subspicatus			
Met		OECD 201			
3	benzyl alcohol	100-51-6		202-859-9	
EC5	• =		500	mg/l	
	ation of exposure		72	h	
Spe		Pseudokirchneriella subcapi	tata		
Metl		OECD 201			
Sou	<u> </u>	ECHA			
4	linalool	78-70-6		201-134-4	
ErC	<del>▼</del> ▼		156.7	mg/l	
	ation of exposure		96	h	
Spe		Desmodesmus subspicatus			
Metl		DIN 38412			
Sou		ECHA			
5	citral	5392-40-5		226-394-6	
EC5			103.8	mg/l	
	ation of exposure		72	h	
Spe		Desmodesmus subspicatus			
Metl		DIN 38412			
Sou	·	ECHA			
6	alpha-hexylcinnamaldehyde	101-86-0		202-983-3	
		>	0.065	mg/l	
EC5			72	h	
Dura	ation of exposure				
Dura Spe	cies	Desmodesmus subspicatus			
Dura	cies hod	Desmodesmus subspicatus OECD 201 ECHA			

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Toxi	Toxicity to algae (chronic)					
No	Substance name	CAS no.	EC no.			
1	benzyl alcohol	100-51-6	202-859-9			
NOE	EC .	3107	2 mg/l			
Dura	ation of exposure	72				
Species		Pseudokirchneriella subcapitata				
Method		OECD 201				
Source   ECDIN						

Bacteria toxicity
No data available

12.2 Persistence and degradability

	degradability			
No	Substance name	CAS no.		EC no.
1	2-butoxyethanol	111-76-2		203-905-0
Туре	e	aerobic biodegradation		
Valu	le		90.4	%
	ation		28	day(s)
Metl		OECD 301 B		
Sou		ECHA		
	luation	readily biodegradable		
	Orange, sweet, ext.	8028-48-6		232-433-8
Valu		72 -	83.4	%
Meti	ation	OECD 301 B	28	day(s)
	luation benzyl alcohol	readily biodegradable 100-51-6		202-859-9
Туре		BOD of the ThOD		202-839-9
Valu		92 -	96	%
	ation	32	14	day(s)
Met		OECD 301 C		uaj(5)
Sou		ECHA		
Eva	luation	readily biodegradable		
4	linalool	78-70-6		201-134-4
Valu	le	>	64	%
	ation		28	day(s)
Metl		OECD 301 D		
Sou		ECHA		
	luation	readily biodegradable		
5	citral	5392-40-5		226-394-6
Туре	<del>0</del>	BSB >	00	%
Valu		>	90	* =
Met	ation	92/69/EEC, C.4-C	28	day(s)
Sou		ECHA		
	alpha-hexylcinnamaldehyde	101-86-0		202-983-3
Valu	ie	appr.	97	%
	ation	аррі.	28	day(s)
Met		OECD 301 F		adj (o)
Sou		ECHA		
		1		

12.3 Bioaccumulative potential

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

Part	Partition coefficient n-octanol/water (log value)				
No	Substance name	CAS no.	EC no.		

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1	2-butoxyethanol		111-76-2		203-905-0	
log	Pow		-	0.81		
	erence temperature			20	°C	
	:hod	calculated				
Sou	ırce	ECHA				
2	Orange, sweet, ext.		8028-48-6		232-433-8	
log	Pow	>=		4		
3	benzyl alcohol		100-51-6		202-859-9	
log	Pow			1.05		
Ref	erence temperature			20	°C	
Sou	ırce	ECHA				
4	linalool		78-70-6		201-134-4	
log	Pow			2.84		
Ref	erence temperature			20	°C	
Met	hod	OECD 107				
Sοι		ECHA				
5	citral		5392-40-5		226-394-6	
	Pow			2.76		
Ref	erence temperature			25	°C	
Met		OECD 107				
Sou	· <u>·</u>	ECHA				
6	alpha-hexylcinnamaldehyde		101-86-0		202-983-3	
	Pow	appr.		5.3		
	erence temperature			24	°C	
Met		OECD 117				
Sou		ECHA				
7	2,6-di-tert-butyl-p-cresol		128-37-0		204-881-4	
log	Pow			4.362		

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	One or more components of this product are classified as PBT.
vPvB assessment	One or more components of this product are classified as vPvB.

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

#### 12.8 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

#### **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**

Residues 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.

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#### **SECTION 14: Transport information**

#### 14.1 Transport ADR/RID/ADN

Class F1 Classification code Packing group Ш **UN** number UN1266

Proper shipping name PERFUMERY PRODUCTS

Tunnel restriction code

Environmentally hazardous Symbol "fish and tree"

substance mark

#### 14.2 Transport IMDG

Class 3 Packing group Ш UN1266 **UN** number

PERFUMERY PRODUCTS Proper shipping name

Technical name Orange, sweet, ext.

**EmS** F-E, S-D

Label

Marine pollutant mark Symbol "fish and tree"

#### 14.3 Transport ICAO-TI / IATA

Class Ш Packing group UN1266 **UN** number

Proper shipping name Perfumery products

Label

#### 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.

#### Maritime transport in bulk according to IMO instruments

Not relevant

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **EU regulations**

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain 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

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	2-(4-tert-butylbenzyl) propional	dehvde 80-54-6	201-289-8

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

Trade name: Duftstoff Orange

**Product no.:** 166999

Current version: 1.0.0, issued: 27.04.2022 Replaced version: 1.0.0, issued: 26.11.2020 Region: GB

The	product is considered being subject to REACH regu	lation (EC) 1907/2006 a	nnex XVII.	No 3, 40			
The	The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006						
anne	annex XVII.						
No	Substance name	CAS no.	EC no.	No			
1	2-(4-tert-butylbenzyl) propionaldehyde	80-54-6	201-289-8	75			
2	2-butoxyethanol	111-76-2	203-905-0	75			
3	citral	5392-40-5	226-394-6	75			
4	geraniol	106-24-1	203-377-1	75			
5	linalool	78-70-6	201-134-4	75			

Directive 2012/18/EU on the control of major-accident hazards involving dar	ngerous 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 nurnoses of 2012/18/LIE the

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.
H318 Causes serious eye damage.
H361f Suspected of damaging fertility.
H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### Creation of the safety data sheet

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This information is based on our present knowledge and experience.

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

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

#### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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