

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version: -**, issued: -**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

Duftstoff Dark Cherry**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)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Skin Sens. 1; H317

STOT SE 3; H335

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**

GHS02



GHS07

Signal word

Danger

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version:** -, issued: -**Region:** GB**Hazardous component(s) to be indicated on label:**

benzaldehyde
 Coumarin
 linalyl acetate
 linalool
 (E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-buten-1-one
 Eugenol
 geraniol
 Citronellol
 cinnamaldehyde
 Orange, sweet, ext.

Hazard statement(s)

H225 Highly flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

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	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	ethanol		
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 50.00 - < 70.00 wt%
2	benzaldehyde		

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

	100-52-7 202-860-4 605-012-00-5 01-2119455540-44	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335	>= 10.00 - < 25.00	wt%
3	isopentyl acetate			
	123-92-2 204-662-3 607-130-00-2 01-2119548408-32	Flam. Liq. 3; H226 EUH066	>= 5.00 - < 10.00	wt%
4	vanillin			
	121-33-5 204-465-2 - 01-2119516040-60	Eye Irrit. 2; H319	< 5.00	wt%
5	ethyl-acetate			
	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	< 5.00	wt%
6	piperonal			
	120-57-0 204-409-7 - 01-2119983608-21	Skin Sens. 1B; H317	< 2.50	wt%
7	benzyl acetate			
	140-11-4 205-399-7 - 01-2119638272-42	Aquatic Chronic 3; H412	< 2.50	wt%
8	Coumarin			
	91-64-5 202-086-7 - 01-2119949300-45	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 3; H412	< 2.50	wt%
9	linalyl acetate			
	115-95-7 204-116-4 - 01-2119454789-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	< 2.50	wt%
10	linalool			
	78-70-6 201-134-4 603-235-00-2 01-2119474016-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 2.50	wt%
11	(E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-buten-1-one			
	23726-91-2 245-842-1 - 01-2120094433-55	Skin Sens. 1B; H317 Aquatic Chronic 2; H411 Skin Irrit. 2; H315	< 0.50	wt%
12	Eugenol			
	97-53-0 202-589-1 - 01-2119971802-33	Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 0.50	wt%
13	geraniol			
	106-24-1 203-377-1 -	Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.50	wt%

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version:** -, issued: -**Region:** GB

	01-2119552430-49			
14	Citronellol			
	106-22-9 203-375-0 - 01-2119453995-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0.50	wt%
15	cinnamaldehyde			
	104-55-2 203-213-9 - 01-2119935242-45	Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	< 0.50	wt%
16	Orange, sweet, ext.			
	8028-48-6 232-433-8 - 01-2119493353-35	Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410 Aquatic Acute 1; H400	< 0.50	wt%

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C >= 50%	-	-

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.

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.

After skin contact

In case of contact with skin wash off with water.

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

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; 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

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

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

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.

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.

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 and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

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

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
List of approved workplace exposure limits (WELs) / EH40			
Ethanol			
	WEL long-term (8-hr TWA reference period)	1920	mg/m ³ 1000 ppm
2	isopentyl acetate	123-92-2	204-662-3
2000/39/EC			
Isopentylacetate			
	WEL short-term (15 min reference period)	540	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	270	mg/m ³ 50 ppm
List of approved workplace exposure limits (WELs) / EH40			
Pentyl acetates (all isomers)			
	WEL short-term (15 min reference period)	541	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	270	mg/m ³ 50 ppm
3	ethyl-acetate	141-78-6	205-500-4
2017/164/EU			
Ethyl acetate			
	WEL short-term (15 min reference period)	1468	mg/m ³ 400 ppm
	WEL long-term (8-hr TWA reference period)	734	mg/m ³ 200 ppm
List of approved workplace exposure limits (WELs) / EH40			
Ethyl acetate			
	WEL short-term (15 min reference period)		400 ppm
	WEL long-term (8-hr TWA reference period)		200 ppm

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	ethanol	64-17-5 200-578-6		
	dermal	Long term (chronic)	systemic	343 mg/kg/day
	inhalative	Long term (chronic)	systemic	950 mg/m ³
2	benzaldehyde	100-52-7 202-860-4		
	dermal	Long term (chronic)	systemic	1.14 mg/kg/day
	dermal	Short term (acut)	local	1 % in mixture (weight basis)
	inhalative	Long term (chronic)	systemic	9.8 mg/m ³
	inhalative	Long term (chronic)	local	9.8
3	isopentyl acetate	123-92-2 204-662-3		
	dermal	Long term (chronic)	systemic	2.95 mg/kg/day
	inhalative	Long term (chronic)	systemic	20.8 mg/m ³
4	ethyl-acetate	141-78-6 205-500-4		
	dermal	Long term (chronic)	systemic	63 mg/kg/day
	inhalative	Short term (acut)	systemic	1468 mg/m ³
	inhalative	Long term (chronic)	local	734 mg/m ³
	inhalative	Short term (acut)	local	1468 mg/m ³
	inhalative	Long term (chronic)	systemic	734 mg/m ³
5	piperonal	120-57-0 204-409-7		
	dermal	Long term (chronic)	systemic	2.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	17.6 mg/m ³

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

6	benzyl acetate			140-11-4 205-399-7	
	dermal	Long term (chronic)	systemic	2.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	9	mg/m ³
7	Coumarin			91-64-5 202-086-7	
	dermal	Long term (chronic)	systemic	0.84	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.741	mg/m ³
8	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/cm ²
	inhalative			31.1	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ethanol			64-17-5 200-578-6	
	oral	Long term (chronic)	systemic	87	mg/kg/day
	dermal	Long term (chronic)	systemic	206	mg/kg/day
	inhalative	Long term (chronic)	systemic	114	mg/m ³
2	benzaldehyde			100-52-7 202-860-4	
	oral	Long term (chronic)	systemic	0.67	mg/kg/day
	dermal	Long term (chronic)	systemic	0.67	mg/kg/day
	dermal	Short term (acut)	local	1	% in mixture (weight basis)
	inhalative	Long term (chronic)	systemic	4.9	mg/m ³
	inhalative	Long term (chronic)	local	4.9	mg/m ³
3	isopentyl acetate			123-92-2 204-662-3	
	oral	Long term (chronic)	systemic	1.47	mg/kg/day
	dermal	Long term (chronic)	systemic	1.47	mg/kg/day
	inhalative	Long term (chronic)	systemic	5.1	mg/m ³
4	vanillin			121-33-5 204-465-2	
	oral		systemic	10	mg/kg/day
5	ethyl-acetate			141-78-6 205-500-4	
	oral	Long term (chronic)	systemic	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic	37	mg/kg/day
	inhalative	Short term (acut)	systemic	734	mg/m ³
	inhalative	Long term (chronic)	local	367	mg/m ³
	inhalative	Short term (acut)	local	734	mg/m ³
	inhalative	Long term (chronic)	systemic	367	mg/m ³
6	piperonal			120-57-0 204-409-7	
	oral	Long term (chronic)	systemic	1.25	mg/kg/day
	dermal	Long term (chronic)	systemic	1.25	mg/kg/day
	inhalative	Long term (chronic)	systemic	4.3	mg/m ³
7	benzyl acetate			140-11-4 205-399-7	
	oral	Long term (chronic)	systemic	1.3	mg/kg/day
	dermal	Long term (chronic)	systemic	1.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	2.2	mg/m ³
8	Coumarin			91-64-5 202-086-7	

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

	oral	Long term (chronic)	systemic	0.42	mg/kg/day
	dermal	Long term (chronic)	systemic	0.42	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.183	mg/m ³
9	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/cm ²
	inhalative	Long term (chronic)		7.78	mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	ethanol		64-17-5 200-578-6
	water	fresh water	0.96 mg/L
	water	Aqua intermittent	2.75 mg/L
	water	marine water	0.79 mg/L
	water	fresh water sediment	3.6 mg/kg dry weight
	water	marine water sediment	2.9 mg/L
	soil	-	0.63 mg/kg dry weight
	sewage treatment plant	-	580 mg/L
	secondary poisoning	-	0.38 mg/kg food
2	benzaldehyde		100-52-7 202-860-4
	water	fresh water	0.002 mg/L
	water	marine water	0 mg/L
	water	fresh water sediment	0.022 mg/kg dry weight
	water	marine water sediment	0.002 mg/kg dry weight
	soil	-	0.003 mg/kg dry weight
	sewage treatment plant	-	7.59 mg/L
3	isopentyl acetate		123-92-2 204-662-3
	water	fresh water	0.022 mg/L
	water	marine water	0.0022 mg/L
	water	Aqua intermittent	0.22 mg/L
	sewage treatment plant	-	100 mg/L
4	vanillin		121-33-5 204-465-2
	water	fresh water	0.118 mg/L
	water	fresh water sediment	58.22 mg/kg
	with reference to: dry weight		
	water	marine water	0.0118 mg/L
	water	marine water sediment	5.82 mg/kg
	with reference to: dry weight		
	soil	-	11.54 mg/kg
	with reference to: dry weight		
	sewage treatment plant	-	10 mg/L
5	ethyl-acetate		141-78-6 205-500-4
	water	fresh water	0.24 mg/L
	water	marine water	0.024 mg/L
	water	Aqua intermittent	1.65 mg/L

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

	water	fresh water sediment	1.15	mg/kg dry weight
	water	marine water sediment	0.115	mg/kg dry weight
	soil	-	0.148	mg/kg dry weight
	sewage treatment plant	-	650	mg/L
	secondary poisoning	-	200	mg/kg
6	piperonal		120-57-0 204-409-7	
	water	fresh water	2.5	µg/L
	water	marine water	0.25	µg/L
	water	Aqua intermittent	25	µg/L
	water	fresh water sediment	11.9	µg/kg
	with reference to: dry weight			
	water	marine water sediment	1.2	µg/kg
	with reference to: dry weight			
	soil	-	0.84	µg/kg
	sewage treatment plant	-	10	mg/L
7	benzyl acetate		140-11-4 205-399-7	
	water	fresh water	0.018	mg/L
	water	marine water	0.002	mg/L
	water	fresh water sediment	0.526	mg/kg dry weight
	water	marine water sediment	0.053	mg/kg dry weight
	soil	-	0.094	mg/kg dry weight
	sewage treatment plant	-	8.55	mg/L
8	Coumarin		91-64-5 202-086-7	
	water	fresh water	0.0056	mg/L
	water	marine water	0.00056	mg/L
	water	Aqua intermittent	0.056	mg/L
	water	fresh water sediment	0.207	mg/kg dry weight
	water	marine water sediment	0.0207	mg/kg dry weight
	soil	-	0.0217	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
9	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 weight
	sewage treatment plant	-	2.1	mg/L
	secondary poisoning	-	13.3	mg/kg
	with reference to: food			

8.2 Exposure controls

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version:** -, issued: -**Region:** GB**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	nitrile		
Appropriate Material	neoprene		
Appropriate Material	Polychloroprene		
Material thickness		0.5	mm
Breakthrough time	>	480	min

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form/Colour			
liquid			
yellow; reddish			
Odour			
fruity			
Odour threshold			
No data available			
pH value			
No data available			
Boiling point / boiling range			
Value	>	35	°C
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value		17	°C
Auto-ignition temperature			
No data available			

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

Oxidising properties			
not oxidizing			
Explosive properties			
This product is not explosive. In and after use danger of production of inflammable compounds.			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
Value	<	1060	hPa
Reference temperature		50	°C
Relative vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value	0.893	-	0.905 g/cm ³
Reference temperature		20	°C
Solubility in water			
No data available			
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
	log Pow		-0.35
	Reference temperature		24 °C
	with reference to	pH 7,4	
	Method	OECD 107	
	Source	ECHA	
2	ethyl-acetate	141-78-6	205-500-4
	log Pow		6.8
	Reference temperature		25 °C
	Source	ECHA	
3	piperonal	120-57-0	204-409-7
	log Pow		1.2
	Reference temperature		35 °C
	Method	OECD 117	
	Source	ECHA	
4	benzyl acetate	140-11-4	205-399-7
	log Pow		1.96
	Reference temperature		25 °C
	Source	ECHA	
5	Orange, sweet, ext.	8028-48-6	232-433-8
	log Pow	>=	4
Viscosity			

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

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

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)****No** **Product Name****1** **Duftstoff Dark Cherry**

Comments

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** **ethanol****64-17-5****200-578-6**

LD50

10470

mg/kg bodyweight

Species

rat

with reference to

95% ethanol in water

Method

OECD 401

Source

ECHA

2 **isopentyl acetate****123-92-2****204-662-3**

LD50

7400

mg/kg bodyweight

Species

rat

Source

ECHA

3 **ethyl-acetate****141-78-6****205-500-4**

LD50

>

mg/kg bodyweight

Species

rat

Source

ECHA

4 **benzyl acetate****140-11-4****205-399-7**

LD50

>

mg/kg bodyweight

Species

rat

Method

OECD 401

Source

ECHA

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.		
5	Orange, sweet, ext.	8028-48-6	232-433-8
LD50	>	5000	mg/kg bodyweight
Species	rat		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
LD50	>	20000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
2	piperonal	120-57-0	204-409-7
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
3	benzyl acetate	140-11-4	205-399-7
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	Orange, sweet, ext.	8028-48-6	232-433-8
LD50	>	5000	mg/kg bodyweight
Species	rabbit		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Duftstoff Dark Cherry
Comments	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 for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		124.7	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
2	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	benzyl acetate	140-11-4	205-399-7

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version:** -, issued: -**Region:** GB

Duration of exposure	4 h
Species	rabbit
Method	EU B.4
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
2	vanillin	121-33-5	204-465-2
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
3	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	low-irritant		
4	piperonal	120-57-0	204-409-7
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
5	benzyl acetate	140-11-4	205-399-7
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
6	Orange, sweet, ext.	8028-48-6	232-433-8
Species	rabbit		
Method	OECD 405		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure	Skin		
Species	mouse		
Source	ECHA		
Evaluation	non-sensitizing		
2	vanillin	121-33-5	204-465-2
Route of exposure	Skin		
Species	guinea pig		
Method	84/449/EEC, B.6		
Source	ECHA		
Evaluation	non-sensitizing		
3	ethyl-acetate	141-78-6	205-500-4
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
4	piperonal	120-57-0	204-409-7
Route of exposure	Skin		

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version:** -, issued: -**Region:** GB

Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	sensitizing		
5	benzyl acetate	140-11-4	205-399-7
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	vanillin	121-33-5	204-465-2
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	piperonal	120-57-0	204-409-7
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	benzyl acetate	140-11-4	205-399-7
Type of examination	in vitro gene mutation study in bacteria		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure	oral		
NOAEL			
Type of examination	2 generation study		
Species	mouse		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	inhalational		
NOAEL			
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	benzyl acetate	140-11-4	205-399-7
Route of exposure	oral		
Duration of exposure	12	week/s	
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	vanillin	121-33-5	204-465-2
Source	ECHA		

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.		
3	piperonal	120-57-0	204-409-7
Species	rat		
Method	OECD 453		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	benzyl acetate	140-11-4	205-399-7
Route of exposure	oral		
NOAEL		1200	mg/kg bw/d
Duration of exposure		103	week/s
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure

No data available

STOT - repeated exposure

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure	oral		
Duration of exposure		14	week/s
Species	rat		
Target organ	kidneys		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	vanillin	121-33-5	204-465-2
Route of exposure	oral		
NOEL		650	mg/kg bw/d
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	piperonal	120-57-0	204-409-7
Route of exposure	oral		
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard

No data available

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		14200	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		
2	isopentyl acetate	123-92-2	204-662-3
LC50	22	- 46	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

Source	ECHA		
3 vanillin	121-33-5	204-465-2	
LC50		57	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
4 ethyl-acetate	141-78-6	205-500-4	
LC50		230	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
5 piperalonal	120-57-0	204-409-7	
LC50		2.5	mg/l
Duration of exposure		96	h
Species	Cyprinus carpio		
Method	OECD 203		
Source	ECHA		
6 benzyl acetate	140-11-4	205-399-7	
LC50		4	mg/l
Duration of exposure		96	h
Species	Oryzias latipes		
Source	ECHA		
7 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		

Toxicity to fish (chronic)

No	Substance name	CAS no.	EC no.
1	benzyl acetate	140-11-4	205-399-7
NOEC		0.92	mg/l
Duration of exposure		28	day(s)
Species	Oryzias latipes		
Source	ECHA		

Toxicity to Daphnia (acute)

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
EC50		5012	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	ASTM Standard E 729-80		
Source	ECHA		
2 vanillin	121-33-5	204-465-2	
EC50		36.79	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3 ethyl-acetate	141-78-6	205-500-4	
EC50		1350	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
4 piperalonal	120-57-0	204-409-7	
EC50		52	mg/l
Duration of exposure		48	h

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

Species	Daphnia magna
Method	OECD 202
Source	ECHA
5	benzyl acetate 140-11-4 205-399-7
EC50	17 mg/l
Duration of exposure	48 h
Species	Daphnia magna
Method	OECD 202
Source	ECHA
6	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

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
NOEC		9.6	mg/l
Duration of exposure		9	day(s)
Species	Daphnia magna		
Source	ECHA		
2	vanillin	121-33-5	204-465-2
NOEC		5.9	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
EC50		275	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
Method	OECD 201		
Source	ECHA		
2	isopentyl acetate	123-92-2	204-662-3
ErC50	>	100	mg/l
Duration of exposure		72	h
Species	Desmodosmus subspicatus		
Method	OECD 201		
Source	ECHA		
3	vanillin	121-33-5	204-465-2
ErC50		120	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
4	piperonal	120-57-0	204-409-7
ErC50		31	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
5	Orange, sweet, ext.	8028-48-6	232-433-8
ErC50		150	mg/l
Duration of exposure		72	h
Species	Desmodosmus subspicatus		
Method	OECD 201		

Trade name: Duftstoff Dark Cherry

Product no.: 356999

Current version : 1.0.0, issued: 11.12.2020

Replaced version: -, issued: -

Region: GB

Toxicity to algae (chronic)
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Type		aerobic biodegradation	
Value		appr. 84	%
Duration		20	day(s)
Method		OECD	
Source		ECHA	
Evaluation		readily biodegradable	
Value		%	
2	vanillin	121-33-5	204-465-2
Value		97	- 100 %
Duration		14	day(s)
Method		OECD 301 C	
Source		ECHA	
Evaluation		readily biodegradable	
3	ethyl-acetate	141-78-6	205-500-4
Source		ECHA	
Evaluation		readily biodegradable	
4	piperonal	120-57-0	204-409-7
Type		aerobic biodegradation	
Value		82	%
Duration		28	day(s)
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily biodegradable	
5	Orange, sweet, ext.	8028-48-6	232-433-8
Value		72	- 83.4 %
Duration		28	day(s)
Method		OECD 301 B	
Evaluation		readily biodegradable	

12.3 Bioaccumulative potential

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

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
log Pow		-0.35	
Reference temperature		24	°C
with reference to		pH 7,4	
Method		OECD 107	
Source		ECHA	
2	ethyl-acetate	141-78-6	205-500-4
log Pow		6.8	
Reference temperature		25	°C
Source		ECHA	
3	piperonal	120-57-0	204-409-7

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version:** -, issued: -**Region:** GB**14.2 Transport IMDG**

Class	3
Packing group	II
UN number	UN1266
Proper shipping name	PERFUMERY PRODUCTS
EmS	F-E, S-D
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
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 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

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3, 40
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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:	P5b
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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:**

Trade name: Duftstoff Dark Cherry**Product no.:** 356999**Current version :** 1.0.0, issued: 11.12.2020**Replaced version:** -, issued: -**Region:** GB

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)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

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

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

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