

Page 1 of 39
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 28.04.2023 / 0001
Replacing version dated / version: 28.04.2023 / 0001
Valid from: 28.04.2023
PDF print date: 28.04.2023
Duftstoff Dark Cherry
Art.: 356999

Safety data sheet **according to Regulation (EC) No 1907/2006, Annex II**

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

1.1 Product identifier

Duftstoff Dark Cherry
Art.: 356999

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

perfumes

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Koch-Chemie GmbH
Einsteinstrasse 42
59423 Unna
Telefon: +49 (0) 2303 / 9 86 70 - 0
Fax: +49 (0) 2303 / 9 86 70 - 26
info@koch-chemie.com
www.koch-chemie.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:

+1 872 5888271 (KCC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
Eye Irrit.	2	H319-Causes serious eye irritation.
STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H225-Highly flammable liquid and vapour. H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection. P312-Call a POISON CENTRE / doctor if you feel unwell.

Cinnamaldehyde
 Linalyl acetate
 Geraniol
 Eugenol
 piperonal
 Linalool
 Coumarin
 Benzaldehyde
 trans-hex-2-en-1-ol

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

Ethanol	
Registration number (REACH)	01-2119457610-43-XXXX
Index	603-002-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	200-578-6
CAS	64-17-5
content %	50-<75
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Specific Concentration Limits and ATE	Eye Irrit. 2, H319: >=50 %
Benzaldehyde	
Registration number (REACH)	---

Page 3 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Index	605-012-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	202-860-4
CAS	100-52-7
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412

Isopentyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	607-130-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	204-662-3
CAS	123-92-2
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066 Flam. Liq. 3, H226

ethyl butyrate	
Registration number (REACH)	01-2120118576-54-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	203-306-4
CAS	105-54-4
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226 Eye Irrit. 2, H319

Ethyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475103-46-XXXX
Index	607-022-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	205-500-4
CAS	141-78-6
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

2-methylbutyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	607-130-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	210-843-8
CAS	624-41-9
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066 Flam. Liq. 3, H226

Vanillin	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	204-465-2
CAS	121-33-5
content %	1-<3

Page 4 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319
Benzyl acetate	
Registration number (REACH)	01-2119638272-42-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	205-399-7
CAS	140-11-4
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Chronic 3, H412
piperonal	
Registration number (REACH)	01-2119983608-21-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	204-409-7
CAS	120-57-0
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317
Anisaldehyde	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	204-602-6
CAS	123-11-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Chronic 3, H412
Coumarin	
Registration number (REACH)	01-2119949300-45-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	202-086-7
CAS	91-64-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Linalyl acetate	
Registration number (REACH)	01-2119454789-19-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	204-116-4
CAS	115-95-7
content %	<2
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
trans-hex-2-en-1-ol	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	213-191-2
CAS	928-95-0
content %	<1

Page 5 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
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Linalool	
Registration number (REACH)	01-2119474016-42-XXXX
Index	603-235-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	201-134-4
CAS	78-70-6
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317

Geraniol	
Registration number (REACH)	01-2119552430-49-XXXX
Index	603-241-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	203-377-1
CAS	106-24-1
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317

Eugenol	
Registration number (REACH)	01-2119971802-33-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	202-589-1
CAS	97-53-0
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Irrit. 2, H319 Skin Sens. 1B, H317

Cinnamaldehyde	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	203-213-9
CAS	104-55-2
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
 The substances named in this section are given with their actual, appropriate classification!
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

eyes, reddened

watering eyes

reddening of the skin

Dermatitis (skin inflammation)

Allergic reaction

coughing

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

Possible build up of explosive/highly flammable vapour/air mixture.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid aerosol formation.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Take explosion-prevention measures if applicable.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with flammable or self-igniting materials.

Protect from direct sunlight and warming.

Store in a well ventilated place.

Store cool.

Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Ethanol		
WEL-TWA: 1000 ppm (1920 mg/m3)	WEL-STEL: ---	---	
Monitoring procedures:	<ul style="list-style-type: none">- Draeger - Alcohol 25/a Ethanol (81 01 631)- Compur - KITA-104 SA (549 210)- DFG (D) (Lösungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)		

GB IRL M

Page 8 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

- DFG Meth. Nr. 2 (D) (Lösungsmittelgemische) - 2013 - EU project
- BC/CEN/ENTR/000/2002-16 card 63-2 (2004)
- DFG Meth. Nr. 3 (D) (Lösungsmittelgemische) - 2013 - EU project
- BC/CEN/ENTR/000/2002-16 card 63-2 (2004)

BMGV: ---

Other information: ---

Chemical Name	Ethanol
OELV-8h: 1000 ppm	OELV-15min: ---
Monitoring procedures:	<ul style="list-style-type: none"> - Draeger - Alcohol 25/a Ethanol (81 01 631) - Compur - KITA-104 SA (549 210) - DFG (D) (Lösungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) - DFG Meth. Nr. 2 (D) (Lösungsmittelgemische) - 2013 - EU project - BC/CEN/ENTR/000/2002-16 card 63-2 (2004) - DFG Meth. Nr. 3 (D) (Lösungsmittelgemische) - 2013 - EU project - BC/CEN/ENTR/000/2002-16 card 63-2 (2004)
BLV: ---	Other information: ---

Chemical Name	Isopentyl acetate
WEL-TWA: 50 ppm (270 mg/m3) (Pentyl acetates (all isomers), WEL-TWA), 50 ppm (270 mg/m3) (EU)	WEL-STEL: 100 ppm (541 mg/m3) (Pentyl acetates (all isomers), WEL-STEL), 100 ppm (540 mg/m3) (EU)
Monitoring procedures:	<ul style="list-style-type: none"> - Compur - KITA-188 U (549 384) - NIOSH 1450 (ESTERS 1) - 2003 - OSHA PV2142 (n-Amyl Acetate Isoamyl Acetate) - 2005
BMGV: ---	Other information: ---

Chemical Name	Isopentyl acetate
OELV-8h: 50 ppm (260 mg/m3) (OELV-8h), 50 ppm (270 mg/m3) (CE)	OELV-15min: 100 ppm (520 mg/m3) (OELV-15min), 100 ppm (540 mg/m3) (EU)
Monitoring procedures:	<ul style="list-style-type: none"> - Compur - KITA-188 U (549 384) - NIOSH 1450 (ESTERS 1) - 2003 - OSHA PV2142 (n-Amyl Acetate Isoamyl Acetate) - 2005
BLV: ---	Other information: ---

Chemical Name	Isopentyl acetate
OELV-8h: 50 ppm (270 mg/m3) (OELV-8h, UE)	OELV-ST: 100 ppm (540 mg/m3) (OELV-ST, UE)
Monitoring procedures:	<ul style="list-style-type: none"> - Compur - KITA-188 U (549 384) - NIOSH 1450 (ESTERS 1) - 2003 - OSHA PV2142 (n-Amyl Acetate Isoamyl Acetate) - 2005
BMGV: ---	Other information: ---

Chemical Name	Ethyl acetate
WEL-TWA: 200 ppm (734 mg/m3) (WEL, EU)	WEL-STEL: 400 ppm (1468 mg/m3) (WEL, EU)
Monitoring procedures:	<ul style="list-style-type: none"> - Draeger - Ethyl Acetate 200/a (CH 20 201) - Compur - KITA-111 SA (549 160) - Compur - KITA-111 U(C) (549 178) - DFG Meth. Nr. 1 (D) (Lösungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002 - DFG Meth. Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002 - NIOSH 1457 (ETHYL ACETATE) - 1994 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
BMGV: ---	Other information: ---

Chemical Name	Ethyl acetate
OELV-8h: 200 ppm (734 mg/m3) (OELV-8h, EU)	OELV-15min: 400 ppm (1468 mg/m3) (OELV-15min, EU)
Monitoring procedures:	<ul style="list-style-type: none"> - Draeger - Ethyl Acetate 200/a (CH 20 201) - Compur - KITA-111 SA (549 160) - Compur - KITA-111 U(C) (549 178)

GB IRL M

Page 9 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

- DFG Meth. Nr. 1 (D) (Lösungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002
- DFG Meth. Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002
- DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002
- NIOSH 1457 (ETHYL ACETATE) - 1994
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996

BLV: ---

Other information: ---

Chemical Name Ethyl acetate

OELV-8h: 200 ppm (734 mg/m³) (UE)

OELV-ST: 400 ppm (1468 mg/m³) (UE)

Monitoring procedures:

- Draeger - Ethyl Acetate 200/a (CH 20 201)
- Compur - KITA-111 SA (549 160)
- Compur - KITA-111 U(C) (549 178)
- DFG Meth. Nr. 1 (D) (Lösungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002
- DFG Meth. Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002
- DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002
- NIOSH 1457 (ETHYL ACETATE) - 1994
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996

BMGV: ---

Other information: ---

Chemical Name 2-methylbutyl acetate

WEL-TWA: 50 ppm (270 mg/m³) (Pentyl acetates (all isomers), WEL-TWA), 50 ppm (270 mg/m³) (EU) (Isopentyl acetate)

WEL-STEL: 100 ppm (541 mg/m³) (Pentyl acetates (all isomers), WEL-STEL), 100 ppm (540 mg/m³) (EU) (Isopentyl acetate)

Monitoring procedures:

BMGV: ---

Other information: ---

Chemical Name 2-methylbutyl acetate

OELV-8h: 50 ppm (260 mg/m³) (OELV-8h), 50 ppm (270 mg/m³) (CE) (Isopentyl acetate)

OELV-15min: 100 ppm (520 mg/m³) (OELV-15min), 100 ppm (540 mg/m³) (EU) (Isopentyl acetate)

Monitoring procedures:

BLV: ---

Other information: ---

Chemical Name 2-methylbutyl acetate

OELV-8h: 50 ppm (270 mg/m³) (Isopentylacetate) (OELV-8h, UE)

OELV-ST: 100 ppm (540 mg/m³) (Isopentylacetate) (OELV-ST, UE)

Monitoring procedures:

BMGV: ---

Other information: ---

Chemical Name Benzyl acetate

OELV-8h: 10 ppm

OELV-15min: ---

Monitoring procedures:

BLV: ---

Other information: ---

Ethanol

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,96	mg/l	
	Environment - marine		PNEC	0,79	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	2,75	mg/l	
	Environment - sewage treatment plant		PNEC	580	mg/l	

Page 10 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

	Environment - sediment, freshwater		PNEC	3,6	mg/kg dry weight	
	Environment - soil		PNEC	0,63	mg/kg dry weight	
	Environment - oral (animal feed)		PNEC	0,38	g/kg feed	
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight	
Consumer	Human - dermal	Short term, local effects	DNEL	950	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	114	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	87	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	206	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	950	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m3	

Benzaldehyde

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0	mg/l	
	Environment - marine		PNEC	0	mg/l	
	Environment - sewage treatment plant		PNEC	7,59	mg/l	
	Environment - sediment, freshwater		PNEC	0,004	mg/kg	
	Environment - sediment, marine		PNEC	0	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	9,8	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	9,8	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,14	mg/kg bw/d	

Isopentyl acetate

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	1,47	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,47	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	5,1	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,95	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	20,8	mg/kg	

Page 11 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

ethyl butyrate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	29,7	µg/l	
	Environment - marine		PNEC	2,97	µg/l	
	Environment - sewage treatment plant		PNEC	23,6	mg/l	
	Environment - sediment, freshwater		PNEC	0,173	mg/kg	
	Environment - sediment, marine		PNEC	0,0173	mg/kg	
	Environment - soil		PNEC	0,0171	mg/kg	
	Environment - sewage treatment plant		PNEC	23,6	mg/l	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	49,3	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,33	mg/kg bw/d	

Ethyl acetate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,24	mg/l	
	Environment - marine		PNEC	0,024	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,65	mg/l	
	Environment - sediment, freshwater		PNEC	1,15	mg/kg	
	Environment - sediment, marine		PNEC	0,115	mg/kg	
	Environment - soil		PNEC	0,148	mg/kg	
	Environment - sewage treatment plant		PNEC	650	mg/l	
	Environment - oral (animal feed)		PNEC	200	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,5	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	37	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	734	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	734	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	63	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	1468	mg/m3	

Page 12 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Workers / employees	Human - inhalation	Short term, local effects	DNEL	1468	mg/m3	
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Vanillin						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,118	mg/l	
	Environment - marine		PNEC	0,012	mg/l	
	Environment - sediment, freshwater		PNEC	58,22	mg/kg dw	
	Environment - sediment, marine		PNEC	5,822	mg/kg dw	
	Environment - soil		PNEC	11,54	mg/kg dw	
	Environment - sewage treatment plant		PNEC	10	mg/l	

Benzyl acetate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,004	mg/l	
	Environment - marine		PNEC	0,0004	mg/l	
	Environment - periodic release		PNEC	0,04	mg/l	
	Environment - sewage treatment plant		PNEC	8,55	mg/l	
	Environment - sediment, freshwater		PNEC	0,114	mg/kg	
	Environment - sediment, marine		PNEC	0,0114	mg/kg	
	Environment - soil		PNEC	0,0205	mg/kg	
Consumer	Human - oral	Short term, systemic effects	DNEL	6,25	mg/kg bw/day	
Consumer	Human - dermal	Short term, systemic effects	DNEL	6,25	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	11	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	5,5	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,125	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	9	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	43,8	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	6,25	mg/kg bw/day	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	12,5	mg/kg bw/day	

piperonal						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note

Page 13 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

	Environment - freshwater		PNEC	2,5	µg/l	
	Environment - marine		PNEC	0,25	µg/l	
	Environment - periodic release		PNEC	25	µg/l	
	Environment - sediment, freshwater		PNEC	0,0119	mg/kg	
	Environment - soil		PNEC	0,00084	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, marine		PNEC	0,0012	mg/kg dry weight	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,25	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,25	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	4,3	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	17,6	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/day	

Anisaldehyde						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,081	mg/l	
	Environment - marine		PNEC	0,0081	mg/l	
	Environment - sewage treatment plant		PNEC	8,5	mg/l	
	Environment - sediment, freshwater		PNEC	0,373	mg/kg	
	Environment - sediment, marine		PNEC	0,037	mg/kg	
	Environment - soil		PNEC	0,0967	mg/kg	
	Environment - periodic release		PNEC	0,81	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	2,5	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	4,2	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	4,35	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	6,9	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	14,7	mg/m3	

Coumarin						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	19	µg/l	
	Environment - marine		PNEC	1,9	µg/l	
	Environment - periodic release		PNEC	14,5	µg/l	

Page 14 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

	Environment - sewage treatment plant		PNEC	6,4	mg/l	
	Environment - sediment, freshwater		PNEC	0,15	mg/kg	
	Environment - sediment, marine		PNEC	0,015	mg/kg	
	Environment - soil		PNEC	0,018	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,69	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,39	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,39	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,741	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,79	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,78	mg/m3	

Linalyl acetate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - water		PNEC	0,011	mg/l	
	Environment - marine		PNEC	0,0011	mg/l	
	Environment - sediment, marine		PNEC	0,0609	mg/kg	
	Environment - soil		PNEC	0,115	mg/kg	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - periodic release		PNEC	0,11	mg/l	
	Environment - sediment, freshwater		PNEC	0,609	mg/kg	
	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,68	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,25	mg/kg	
Consumer	Human - dermal	Short term, local effects	DNEL	0,24	mg/m3	
Consumer	Human - dermal	Long term, local effects	DNEL	0,24	mg/cm2	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,24	mg/cm2	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,75	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg body weight/day	
Workers / employees	Human - dermal	Short term, local effects	DNEL	0,24	mg/cm2	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,2	mg/l	
	Environment - marine		PNEC	0,02	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	2	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	2,22	mg/kg dw	
	Environment - sediment, marine		PNEC	0,222	mg/kg dw	
	Environment - soil		PNEC	0,3	mg/kg	
	Environment - soil		PNEC	0,327	mg/kg dw	
Consumer	Human - dermal	Short term, local effects	DNEL	15	mg/kg bw/d	
Consumer	Human - dermal	Long term, local effects	DNEL	15	mg/kg bw/d	
Consumer	Human - dermal	Short term, systemic effects	DNEL	2,5	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,25	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,2	mg/kg bw/d	
Consumer	Human - oral	Short term, systemic effects	DNEL	1,2	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	4,1	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,7	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, local effects	DNEL	15	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, local effects	DNEL	15	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	16,5	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,8	mg/m3	

Geraniol

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,011	mg/l	
	Environment - marine		PNEC	0,001	mg/l	
	Environment - sediment, freshwater		PNEC	0,115	mg/kg	
	Environment - sediment, marine		PNEC	0,011	mg/kg	
	Environment - sewage treatment plant		PNEC	0,7	mg/l	
	Environment - soil		PNEC	0,017	mg/kg	

Page 16 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Consumer	Human - dermal	Long term, systemic effects	DNEL	7,5	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	13,75	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	47,8	mg/m3	
Consumer	Human - dermal	Long term, local effects	DNEL	11,8	mg/cm2	
Workers / employees	Human - dermal	Long term, local effects	DNEL	11,8	mg/cm2	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	161	mg/m3	

Eugenol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1,13	µg/l	
	Environment - marine		PNEC	0,113	µg/l	
	Environment - sporadic (intermittent) release		PNEC	11,3	µg/l	
	Environment - sediment, freshwater		PNEC	0,081	mg/kg	
	Environment - sediment, marine		PNEC	0,0081	mg/kg	
	Environment - soil		PNEC	0,0155	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	5,22	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	3	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	3	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	21,2	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	6	mg/kg bw/d	

Ⓖ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

Ⓘ OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |

Page 17 of 39

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.04.2023 / 0001

Replacing version dated / version: 28.04.2023 / 0001

Valid from: 28.04.2023

PDF print date: 28.04.2023

Duftstoff Dark Cherry

Art.: 356999

OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

BLV = Biological limit value |

Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

M OELV-8h = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average)

[9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |

OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period)

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

[8] = Short-term exposure limit value in relation to a reference period of 1 minute. (S.L.424.24), [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24) |

BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) |

Other information: Skin = Possibility of a significant uptake through the skin.

[11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. (S.L.424.24), [12] = The mist is defined as the thoracic fraction.

(S.L.424.24), [13] = Established in accordance with the Annex to Directive 91/322/EEC. (S.L.424.24), [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV. (S.L.424.24).

(EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

> 0,7

Page 18 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Permeation time (penetration time) in minutes:

> 10

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Red
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	There is no information available on this parameter.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	17 °C
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	There is no information available on this parameter.
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,899 g/cm ³
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.

9.2 Other information

No information available at present.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Page 19 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Electrostatic charge

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

Duftstoff Dark Cherry

Art.: 356999

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value, Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Ethanol

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10470	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	51-124,7	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2

Page 20 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451 (Carcinogenicity Studies)	24 mon
Reproductive toxicity:	NOAEL	5200	mg/kg bw/d	Rat	OECD 416 (Two-generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAL	>20	mg/l	Rat	OECD 403 (Acute Inhalation Toxicity)	Male
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	1730	mg/kg/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Female
Symptoms:						respiratory distress, drowsiness, unconsciousness, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea

Benzaldehyde

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1430	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by inhalation:	LC50	1-5	mg/l/4h	Rat	U.S. EPA No. 145	

Isopentyl acetate

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		

Page 21 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative

ethyl butyrate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:					OECD 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)	Not irritant
Serious eye damage/irritation:				Human being	OECD 492 (Reconstructed Human Cornea-like Epithelium ... Not Requir. C. + L. for Eye Irrit./Dam.)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity (Developmental toxicity):	NOAEL	500	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	

Ethyl acetate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4934	mg/kg	Rabbit	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>20000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC0	29,3	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.

Page 22 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Aspiration hazard:						No
Symptoms:						lack of appetite, breathing difficulties, drowsiness, unconsciousness, drop in blood pressure, cornea opacity, coughing, headaches, gastrointestinal disturbances, intoxication, drowsiness, mucous membrane irritation, dizziness, salivation, nausea and vomiting., fatigue
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Rat	Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS))	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,002	mg/kg	Rat	Regulation (EC) 440/2008 B.29 (SUB-CHRONIC INHALATION TOXICITY STUDY 90-DAY REPEATED (RODENTS))	

Page 23 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

2-methylbutyl acetate

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Symptoms:						breathing difficulties, unconsciousness, vomiting, headaches, dizziness, nausea

Vanillin

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3925-3978	mg/kg	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	
Acute toxicity, by dermal route:	LD50	>5010	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	Regulation (EC) 440/2008 B.4 (ACUTE DERMAL IRRITATION/CORROSION)	Not irritant, Mechanical irritation possible.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Irritant
Respiratory or skin sensitisation:				Guinea pig	Regulation (EC) 440/2008 B.6 (SKIN SENSITISATION)	No (skin contact)
Germ cell mutagenicity:					(Ames-Test)	Negative

Benzyl acetate

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2490	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	> 5000	mg/kg	Rabbit		

piperonal

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2700	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Skin Sens. 1B

Anisaldehyde

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3210	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		

Page 24 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative

Coumarin

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	680	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit	Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSION)	Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	>138,3	mg/kg bw/d	Mouse		

Linalyl acetate

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>9000	mg/kg	Rat		BASF test
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity:	NOAEL	500	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developmental Toxicity Screening Test)	
Reproductive toxicity:	NOEL	500	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Aspiration hazard:						No

Page 25 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Symptoms:						ataxia, drowsiness, headaches, stomach pain, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	160	mg/kg bw/d	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	250	mg/kg bw/d	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	

trans-hex-2-en-1-ol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Skin corrosion/irritation:						Skin Irrit. 2
Serious eye damage/irritation:						Eye Irrit. 2
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H335
Symptoms:						mucous membrane irritation

Linalool						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2790	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	5610	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	> 3,2	mg/l	Mouse		Vapours 90 min
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1B
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative

Page 26 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Geraniol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3600	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	NegativeChinese hamster
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negativefemale
Symptoms:						respiratory distress, coughing, mucous membrane irritation

Eugenol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2680	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	2130	mg/kg	Guinea pig		
Skin corrosion/irritation:						Mild irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1B
Symptoms:						ataxia, respiratory distress, drowsiness, vomiting, cramps, insomnia, mucous membrane irritation, nausea

11.2. Information on other hazards

Duftstoff Dark Cherry
 Art.: 356999

Page 27 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.

Ethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Other information:						Excessive alcohol consumption during pregnancy induces the foetus alcohol syndrome (reduced weight at birth, physical and mental disorders)., There is no sign that this syndrome is also caused by dermal or inhalative absorption., Experiences on persons.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Duftstoff Dark Cherry Art.: 356999							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.

Page 28 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

Other information:							DOC-elimination degree (complexing organic substance) \geq 80%/28d: n.a.
Other information:	AOX			%			According to the recipe, contains no AOX.

Ethanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	120h	250	mg/l	Brachydanio rerio	OECD 212 (Fish, Short-term Toxicity Test on Embryo and Sac-fry Stages)	
12.1. Toxicity to daphnia:	EC50	48h	5414	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	10d	9,6	mg/l	Ceriodaphnia spec.		References
12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	97	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		(-0,35) - (-0,32)				Bioaccumulation is unlikely (LogPow < 1).
12.3. Bioaccumulative potential:	BCF		0,66 - 3,2				
12.4. Mobility in soil:	H (Henry)		0,000138				
12.4. Mobility in soil:	Koc		1,0				Highest estimated
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/NOEL		280	mg/l	Lemna gibba	OECD 201 (Alga, Growth Inhibition Test)	
Other information:	COD		1,9	g/g			

ethyl butyrate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	116,6	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		42d	50	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		8				
12.3. Bioaccumulative potential:	Log Pow		2,433			OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)	
12.4. Mobility in soil:	Log Koc		1,346			OECD 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using HPLC)	25°C

Ethyl acetate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	32d	<9,65	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	96h	230	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	48h	333	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	610	mg/l	Daphnia magna	DIN 38412 T.11	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	2,4	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	165	mg/l			Daphnia cucullata
12.1. Toxicity to algae:	EC50	48h	5600	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	NOEC/NOEL	96h	2000	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	>2000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	48h	3300	mg/l	Scenedesmus subspicatus		
12.2. Persistence and degradability:		20d	79	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF	72h	30				(Fish)
12.3. Bioaccumulative potential:	Log Kow		0,68			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Bioaccumulation is unlikely (LogPow < 1).25 °C
12.4. Mobility in soil:	H (Henry)		0,00012	atm*m3/mol			
12.4. Mobility in soil:	Koc		3				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	2900	mg/l	Escherichia coli		
Toxicity to bacteria:	EC50	15min	5870	mg/l	Photobacterium phosphoreum		
Toxicity to bacteria:	EC10	18h	2900	mg/l	Pseudomonas putida	DIN 38412 T.8	

Vanillin

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	EC50	48h	36,8	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

Page 31 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

12.2. Persistence and degradability:		14d	97-100	%	activated sludge	OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Readily biodegradable
12.3. Bioaccumulative potential:							Slight
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Benzyl acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	4	mg/l	Oryzias latipes	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	17	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	110	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	52	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	92	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,96				A notable biological accumulation potential is not to be expected (LogPow 1-3)., Low25 °C
12.3. Bioaccumulative potential:	BCF		8				Low, calculated value
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	855	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

piperonal							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes

Page 32 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

12.1. Toxicity to fish:	LC50	96h	2,5	mg/l	Cyprinus carpio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	96h	1,6	mg/l	Cyprinus caprio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	52	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	22	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	31	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	1,1	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	82	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable

Anisaldehyde

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	148,32	mg/l	Leuciscus idus	DIN 38412 T.15	
12.1. Toxicity to fish:	NOEC/NOEL	96h	100	mg/l	Leuciscus idus	DIN 38412 T.15	
12.1. Toxicity to daphnia:	EC50	48h	82,8	mg/l	Daphnia magna	84/449/EEC C.2	
12.1. Toxicity to algae:	EC50	72h	81,11	mg/l	Scenedesmus subspicatus	DIN 38412 T.9	
12.2. Persistence and degradability:	DOC	6d	97	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,56			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	
12.4. Mobility in soil:	Log Koc		1				Adsorption in ground.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	30min	850	mg/l	activated sludge	ISO 8192	

Coumarin

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,94	mg/l			
12.1. Toxicity to fish:	NOEC/NOEL	30d	0,191	mg/l			
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,5	mg/l			

Page 33 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

12.1. Toxicity to daphnia:	EC50	48h	24,3-36,9	mg/l			
12.1. Toxicity to algae:	EC50	96h	1,452	mg/l			
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,431	mg/l			

Linalyl acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	11	mg/l	Cyprinus carpio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	15	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	96h	88,3	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.2. Persistence and degradability:		28d	70-80	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		3,9				
12.3. Bioaccumulative potential:	BCF		173,9				Low
Other information:	Koc		517,9				
Other information:	Log Koc		2,71				
Other information:	H (Henry)		176,31				

trans-hex-2-en-1-ol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Linalool							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	96h	<3,5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	27,8	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	59	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	96h	141,4	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	156,7	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	EC10	96h	54,3	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	

Page 34 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

12.2. Persistence and degradability:	BOD	28d	64,2	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	64,2	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		2,84			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Low 25 °C
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>1000	mg/l			
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Geraniol

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	22	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	NOEC/NOEL	96h	10	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	~ 22	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	7,75	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	10,8	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	13,1	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC10	72h	3,77	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	82	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	86	%		OECD 301 (Ready Biodegradability)	Readily biodegradable

Page 35 of 39
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 28.04.2023 / 0001
 Replacing version dated / version: 28.04.2023 / 0001
 Valid from: 28.04.2023
 PDF print date: 28.04.2023
 Duftstoff Dark Cherry
 Art.: 356999

12.2. Persistence and degradability:		28d	100	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		2,6			OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)	Low25 °C
Toxicity to bacteria:	EC50	96h	144	mg/l		ISO 8192	

Eugenol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24000	µg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	1,05	mg/l			
12.1. Toxicity to algae:	EC50	72h	23	mg/l			
12.2. Persistence and degradability:		28d	97	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
12.3. Bioaccumulative potential:	Log Pow		2,27				

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

07 06 99 wastes not otherwise specified

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID),

14.1. UN number or ID number:

1266

14.2. UN proper shipping name:

GB IRL M

Page 36 of 39

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.04.2023 / 0001

Replacing version dated / version: 28.04.2023 / 0001

Valid from: 28.04.2023

PDF print date: 28.04.2023

Duftstoff Dark Cherry

Art.: 356999

UN 1266 PERFUMERY PRODUCTS

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards:

Tunnel restriction code:

Classification code:

LQ:

Transport category:

3

II


Not applicable

D/E

F1

5 L

2



Transport by sea (IMDG-code)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1266 PERFUMERY PRODUCTS

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards:

Marine Pollutant:

EmS:

1266


3

II

Not applicable

Not applicable

F-E, S-D



Transport by air (IATA)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1266 Perfumery products

14.3. Transport hazard class(es):

14.4. Packing group:


14.5. Environmental hazards:

1266

3

II

Not applicable



14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P5c		5000	50000

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

n.a.

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 2, H225	Classification based on test data.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

Skin Sens. — Skin sensitization

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral

Acute Tox. — Acute toxicity - inhalation

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Eye Dam. — Serious eye damage

Acute Tox. — Acute toxicity - dermal

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

Page 38 of 39
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 28.04.2023 / 0001
Replacing version dated / version: 28.04.2023 / 0001
Valid from: 28.04.2023
PDF print date: 28.04.2023
Duftstoff Dark Cherry
Art.: 356999

GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.
National Lists of Occupational Exposure Limits for each country as amended.
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
ATE Acute Toxicity Estimate
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor
BSEF The International Bromine Council
bw body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EbCx, EyCx, ElCx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)
EC European Community
ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
ErCx, EpCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
Koc Adsorption coefficient of organic carbon in the soil
Kow octanol-water partition coefficient
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
IUPAC International Union for Pure Applied Chemistry
LC50 Lethal Concentration to 50 % of a test population
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Page 39 of 39
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 28.04.2023 / 0001
Replacing version dated / version: 28.04.2023 / 0001
Valid from: 28.04.2023
PDF print date: 28.04.2023
Duftstoff Dark Cherry
Art.: 356999

Log K_{oc} Logarithm of adsorption coefficient of organic carbon in the soil
Log K_{ow}, Log P_{ow} Logarithm of octanol-water partition coefficient
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute for Occupational Safety and Health (USA)
NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development
org. organic
OSHA Occupational Safety and Health Administration (USA)
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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