

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006  
Issue date: 11/18/2025 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : AMARENA CHERRY FLAVOUR & E330 CE-A5  
UFI : Y77N-8VN1-620U-KAY0  
Product code : CERI-CEA5

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

##### Relevant identified uses

Main use category : Industrial use, Professional use

#### 1.3. Details of the supplier of the safety data sheet

SELECTAROME SAS  
45 Bd Marcel Pagnol  
PA Aromagrasse  
FR 06130 GRASSE  
France  
T +33 4.93.36.22.22, F 04.93.40.71.72  
[reglementaire@selectarome.com](mailto:reglementaire@selectarome.com)

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
France	ORFILA		+33 1 45 42 59 59	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

Contains : Cinnamic aldehyde; Furaneol

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

Precautionary statements (CLP) : P261 - Avoid breathing vapours.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol substance with national workplace exposure limit(s) (FR)	CAS-No.: 56-81-5 EC-No.: 200-289-5	50 – 75	Not classified
citric acid	CAS-No.: 5949-29-1 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3	3 – 5	Eye Irrit. 2, H319 STOT SE 3, H335
Vanillin	CAS-No.: 121-33-5 EC-No.: 204-465-2	1.5 - 2	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Maltol	CAS-No.: 118-71-8 EC-No.: 204-271-8	1.5 – 2	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
Benzaldehyde	CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5	1 - 1.5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335
ethanol/ ethyl alcohol substance with national workplace exposure limit(s) (FR)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	0.4 - 0.6	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Furaneol / 4-Hydroxy-2,5-dimethyl-3(2H)-furanone	CAS-No.: 3658-77-3 EC-No.: 222-908-8	0.1 – 0.5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317
Isoamyl acetate / Isopentyl acetate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32	0.1 – 0.5	Flam. Liq. 3, H226
cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal	CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6	0.01 - 0.05	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Isoamyl alcohol substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 123-51-3 EC-No.: 204-633-5	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
ethyl acetate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
ethyl formate substance with national workplace exposure limit(s) (FR)	CAS-No.: 109-94-4 EC-No.: 203-721-0 EC Index-No.: 607-015-00-7	< 0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 STOT SE 3, H335

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal	CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6	(0.01 ≤ C ≤ 100) Skin Sens. 1; H317

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
Self protection of the first-aiders	: First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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#### For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

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### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Packaging materials : Always store product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethyl acetate
IOEL TWA	734 mg/m <sup>3</sup>
	200 ppm
IOEL STEL	1468 mg/m <sup>3</sup>
	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Isoamyl alcohol (123-51-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Isoamyl alcohol
IOEL TWA	18 mg/m <sup>3</sup>
	5 ppm

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Isoamyl alcohol (123-51-3)	
IOEL STEL	37 mg/m <sup>3</sup>
	10 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831

Isoamyl acetate / Isopentyl acetate (123-92-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Isopentylacetate
IOEL TWA	270 mg/m <sup>3</sup>
	50 ppm
IOEL STEL	540 mg/m <sup>3</sup>
	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Safety glasses

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

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Colour	: Red.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 70 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.22 (1.2 – 1.24)
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg bodyweight Animal: rat, Animal sex: female
LC50 Inhalation - Rat	5.85 mg/l air Animal: rat
LC50 Inhalation - Rat (Vapours)	> 2.75 mg/l Source: ECHA

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<b>Vanillin (121-33-5)</b>	
LD50 oral rat	3928 – 3976 mg/kg Source: SIDS
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>ethanol/ ethyl alcohol (64-17-5)</b>	
LD50 oral rat	15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560
LD50 oral	8300 mg/kg bodyweight Animal: mouse
<b>ethyl acetate (141-78-6)</b>	
LD50 oral	4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male
<b>Isoamyl alcohol (123-51-3)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	≈ 3216 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 2373 - 4350
LC50 Inhalation - Rat (Vapours)	10 mg/l Source: ECHA
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
LD50 oral rat	2220 mg/kg bodyweight Animal: rat, Guideline: other:, 95% CL: 1910 - 2600
LD50 oral	3400 mg/kg bodyweight Animal: guinea pig, Guideline: other:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: not determinable due to absence of adverse toxic effects
LD50 dermal rabbit	1260 mg/kg bodyweight Animal: rabbit, Guideline: other:
LC50 Inhalation - Rat [ppm]	68.88871 ppm Animal: rat, Guideline: other:Not Applicable;OECD Guideline 403 (Acute Inhalation Toxicity)
<b>Benzaldehyde (100-52-7)</b>	
LD50 oral rat	≈ 1430 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	1 – 5 mg/l air
<b>Isoamyl acetate / Isopentyl acetate (123-92-2)</b>	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
<b>Furaneol / 4-Hydroxy-2,5-dimethyl-3(2H)-furanone (3658-77-3)</b>	
LD50 oral rat	2320 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
<b>citric acid (5949-29-1)</b>	
LD50 oral rat	3000 mg/kg
LD50 oral	5400 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

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<b>Glycerol (56-81-5)</b>	
pH	5 – 6
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
pH	5.22 Temp.: 24 °C Concentration: 1 vol%
<b>citric acid (5949-29-1)</b>	
pH	2.35 (2.2 – 2.5)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
<b>Glycerol (56-81-5)</b>	
pH	5 – 6
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
pH	5.22 Temp.: 24 °C Concentration: 1 vol%
<b>citric acid (5949-29-1)</b>	
pH	2.35 (2.2 – 2.5)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
<b>ethanol/ ethyl alcohol (64-17-5)</b>	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
<b>Furaneol / 4-Hydroxy-2,5-dimethyl-3(2H)-furanone (3658-77-3)</b>	
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
<b>ethyl formate (109-94-4)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>ethyl acetate (141-78-6)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Isoamyl alcohol (123-51-3)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Benzaldehyde (100-52-7)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>citric acid (5949-29-1)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
<b>ethanol/ ethyl alcohol (64-17-5)</b>	
LOAEL (oral, rat, 90 days)	3200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	1730 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (subchronic, oral, animal/male, 90 days)	< 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)

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<b>ethanol/ ethyl alcohol (64-17-5)</b>	
NOAEL (subchronic, oral, animal/female, 90 days)	> 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
<b>ethyl acetate (141-78-6)</b>	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
<b>Isoamyl alcohol (123-51-3)</b>	
NOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: other:
<b>Benzaldehyde (100-52-7)</b>	
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight
<b>Isoamyl acetate / Isopentyl acetate (123-92-2)</b>	
NOAEL (subchronic, oral, animal/female, 90 days)	443.07 mg/kg bodyweight Animal: , Animal sex: female
<b>citric acid (5949-29-1)</b>	
LOAEL (oral, rat, 90 days)	8000 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	4000 mg/kg bodyweight Animal: rat
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
<b>Vanillin (121-33-5)</b>	
Viscosity, kinematic	Not applicable
<b>ethanol/ ethyl alcohol (64-17-5)</b>	
Viscosity, kinematic	1.488 mm <sup>2</sup> /s
<b>Isoamyl alcohol (123-51-3)</b>	
Viscosity, kinematic	5.32 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
Viscosity, kinematic	13.591 mm <sup>2</sup> /s
<b>Isoamyl acetate / Isopentyl acetate (123-92-2)</b>	
Viscosity, kinematic	1.176 mm <sup>2</sup> /s

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

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<b>Glycerol (56-81-5)</b>	
LC50 - Fish [1]	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
<b>Vanillin (121-33-5)</b>	
LC50 - Fish [1]	57 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	123 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	36.79 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	120 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	5.9 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>ethanol/ ethyl alcohol (64-17-5)</b>	
LC50 - Fish [1]	14.2 g/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 10000 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	275 mg/l Source: ECHA
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'
<b>ethyl acetate (141-78-6)</b>	
LC50 - Fish [1]	230 mg/l Test organisms (species): Pimephales promelas
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Isoamyl alcohol (123-51-3)</b>	
LC50 - Fish [1]	700 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	255 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 500 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	493 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	274 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [2]	181 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
LC50 - Fish [1]	105.7637 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	119.5578 mg/l Test organisms (species): Daphnia magna
NOEC chronic fish	15159 mg/l Test organisms (species): other: Duration: '28 d'
<b>Benzaldehyde (100-52-7)</b>	
LC50 - Fish [1]	1.07 mg/l
EC50 - Crustacea [1]	19.7 mg/l
EC50 72h - Algae [1]	33.1 mg/l
EC50 72h - Algae [2]	8.05 mg/l

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<b>Benzaldehyde (100-52-7)</b>	
NOEC chronic fish	0.12 mg/l
<b>Isoamyl acetate / Isopentyl acetate (123-92-2)</b>	
LC50 - Fish [1]	22 – 46 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	42 mg/l Test organisms (species): other:Daphnia magna STRAUS
<b>Furaneol / 4-Hydroxy-2,5-dimethyl-3(2H)-furanone (3658-77-3)</b>	
LC50 - Fish [1]	1.887 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	6.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	194.03 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	96.963 mg/l Source: Ecological Structure Activity Relationships
<b>citric acid (5949-29-1)</b>	
LC50 - Fish [1]	4010000 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	1690000 mg/l Source: Ecological Structure Activity Relationships
<b>12.2. Persistence and degradability</b>	
<b>AMARENA CHERRY FLAVOUR &amp; E330 CE-A5</b>	
Persistence and degradability	Not rapidly degradable
<b>Glycerol (56-81-5)</b>	
Persistence and degradability	Not rapidly degradable
<b>Vanillin (121-33-5)</b>	
Persistence and degradability	Not rapidly degradable
<b>Maltol (118-71-8)</b>	
Persistence and degradability	Not rapidly degradable
<b>ethanol/ ethyl alcohol (64-17-5)</b>	
Persistence and degradability	Not rapidly degradable
<b>ethyl formate (109-94-4)</b>	
Persistence and degradability	Not rapidly degradable
<b>ethyl acetate (141-78-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>Isoamyl alcohol (123-51-3)</b>	
Persistence and degradability	Not rapidly degradable
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
Persistence and degradability	Not rapidly degradable
<b>Benzaldehyde (100-52-7)</b>	
Persistence and degradability	Not rapidly degradable
<b>Isoamyl acetate / Isopentyl acetate (123-92-2)</b>	
Persistence and degradability	Not rapidly degradable

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<b>Furaneol / 4-Hydroxy-2,5-dimethyl-3(2H)-furanone (3658-77-3)</b>	
Persistence and degradability	Not rapidly degradable
<b>citric acid (5949-29-1)</b>	
Persistence and degradability	Not rapidly degradable
<b>12.3. Bioaccumulative potential</b>	
<b>Glycerol (56-81-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.75 Source: ECHA
<b>Vanillin (121-33-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.21 Source: ICSC
<b>ethanol/ ethyl alcohol (64-17-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.32 Source: ICSC
<b>Isoamyl alcohol (123-51-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.16 Source: HSDB
<b>cinnamaldehyde; 3-phenylprop-2-enal; cinnamic aldehyde; cinnamal (104-55-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.9
<b>Benzaldehyde (100-52-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.48
<b>Isomyl acetate / Isopentyl acetate (123-92-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.13 Source: ICSC
<b>Furaneol / 4-Hydroxy-2,5-dimethyl-3(2H)-furanone (3658-77-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.82 Source: Quantitative Structure Activity Relation
<b>citric acid (5949-29-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.72 Source: ICSC
<b>12.4. Mobility in soil</b>	
<b>Furaneol / 4-Hydroxy-2,5-dimethyl-3(2H)-furanone (3658-77-3)</b>	
Mobility in soil	1.072 Source: Quantitative Structure Activity Relation
<b>12.5. Results of PBT and vPvB assessment</b>	
No additional information available	
<b>12.6. Endocrine disrupting properties</b>	
No additional information available	
<b>12.7. Other adverse effects</b>	
No additional information available	
<b>SECTION 13: Disposal considerations</b>	
<b>13.1. Waste treatment methods</b>	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

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### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
Not regulated for transport		
<b>14.2. UN proper shipping name</b>		
Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

##### Transport by sea

Not regulated

##### Air transport

Not regulated

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

Not applicable

### SECTION 15: Regulatory information

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

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

###### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

###### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists (ACGIH)
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer(IARC)
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50% of the population tested (median lethal concentration)
LD50	Median lethal dose for 50% of the population tested (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified

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Abbreviations and acronyms:	
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration (OSHA)
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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Full text of H- and EUH-statements:	
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.