

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

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

### 1.1 Product identifier

Product name : CAR AIR FRESHENER-Black Cherry

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

Use of the Substance/Mixture : Car air freshener

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

Company : FRSH SCENTS LIMITED

Address : Unit 04-05, 16th Floor, The Broadway No. 54 62 Lockhart Road, Wanchai, Hong Kong

Telephone : +86 769 88288882

E-mail address : DORIS@FRSHSCENTSCHINA.COM

UK Importer : JRP Distribution Ltd | PO20 2FT | Tel:+44 (0)1903 750355

EU Representative : Authorised Rep Compliance Ltd., Ground Floor, 71 Lower Baggot Street, Dublin, D02 P593, Ireland.

### 1.4 Emergency telephone number

Emergency telephone number : ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1B	H317
Aquatic Chronic 3	H412

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### 2.2 Label elements

*Labelling according to Regulation (EC) No 1272/2008*

*Hazard pictograms*

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024



Signal word: Warning

#### Hazard statements:

H317 May cause an allergic skin reaction  
H412 Harmful to aquatic life with long lasting effects

#### Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P273 Avoid release to the environment.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P321 Specific treatment (see section 4 on this SDS).  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Hazard information (EU): Not applicable.

#### Derogations from labelling requirements

#### Hazard pictograms



Signal word: Warning

#### Hazard statements:

H317 May cause an allergic skin reaction  
H412 Harmful to aquatic life with long lasting effects

#### Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P273 Avoid release to the environment.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P321 Specific treatment (see section 4 on SDS).

## 2.3 Other hazards

This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

## Endocrine disrupting properties

Environment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Human Health : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Registration number	Classification according to Regulation (EC) No 1272/2008	Concentration (% w/w)
Isononyl acetate(CAS No.: 40379-24-6) (EC No.: 254-898-6)		50-55%
Benzaldehyde(CAS No.:100-52-7) (EC No.: 202-860-4)	Acute Tox. 4, H302	10-15%
(2-methoxymethylethoxy)propanol(CAS No.:34590-94-8) (EC No.: 252-104-2)		5-15%
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one(CAS No.:79-77-6)(EC No.:201-224-3)	Aquatic Chronic 2, H411	1-5%
Methyl anthranilate(CAS No.: 134-20-3) (EC No.: 205-132-4)	Eye Irrit. 2, H319	1-5%
3-ethoxy-4-hydroxybenzaldehyde(CAS No.: 121-32-4) (EC No.: 204-464-7)		1-5%
Vanillin(CAS No.: 121-33-5) (EC No.: 204-465-2)	Eye Irrit. 2, H319	1-5%
Ethyl 2,3-epoxy-3-phenylbutyrate(CAS No.: 77-83-8) (EC No.: 201-061-8)	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	1-5%

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

Isopentyl acetate(CAS No.: 123-92-2) (EC No.: 204-662-3)		
	Flam. Liq. 3, H226	1-5%
4-(4-methoxyphenyl)butan-2-one(CAS No.:104-20-1)(EC No.:203-184-2)		
		1-5%
Undecan-4-olide(CAS No.: 104-67-6) (EC No.: 203-225-4)		
		1-5%
3-methylbutyl butyrate(CAS No.:106-27-4)(EC No.:203-380-8)		
	Flam. Liq. 3 H226	1-5%
Ethyl butyrate(CAS No.:105-54-4) (EC No.: 203-306-4)		
	Flam. Liq. 3, H226	0.5-1.5%

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

- General advice : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Not expected to be irritating to the respiratory system.
- On skin contact : Wash with plenty of soap and water.
- On contact with eyes : Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
- On ingestion : Rinse mouth with water. Call a physician immediately.

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

- Symptoms : Further important symptoms and effects are so far not known.

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

- Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

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

- Specific hazards during firefighting : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

## 5.3 Advice for firefighters

Special protective equipment : Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Further information : No information available.

## SECTION 6: Accidental release measures

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

Personal precautions : Ensure adequate ventilation. Avoid skin contact.

### 6.2 Environmental precautions

Environmental precautions : Do not release to the environment.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Absorb spill and scrub the area with detergent. Dilute with water. Ventilate area and eliminate all ignition sources.

### 6.4 Reference to other sections

References to other sections, if applicable, have been provided in the previous sub-sections.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep out of reach of children. Read label before use.

Advice on protection against fire and explosion : No information available.

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

Requirements for storage areas and containers : Protect against external exposure, such as heat, high temperatures.

### 7.3 Specific end use(s)

no data available

## SECTION 8: Exposure controls/personal protection

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

## 8.1 Control parameters

No data available.

## 8.2 Exposure controls

**Engineering controls** : Not required under normal conditions of use.

Eye protection : Not required for normal handling. Wear eye/face protection.

Hand protection : Not required under normal conditions of use. Wear protective gloves to handle contents of damaged or leaking units.

Body and skin protection : Not required under normal conditions of use. Protection may be required for spills.

General safety and hygiene measures : Not required under normal conditions of use.

Respiratory protection : Not required under normal conditions of use.

Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: : liquid

Odour : pleasant

Odour threshold : no data available

pH : no data available

Melting point : no data available

Boiling point : no data available

Flash point : 71.2°C

Evaporation rate : no data available

Flammability (solid, gas) : not applicable

Upper/lower flammability or explosive limits : no data available

Vapour pressure : no data available

Vapour density : no data available

Relative density : no data available

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

---

Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	not determined
Explosive properties	:	none
Oxidising properties	:	none

## 9.2 Other information

no data available

## SECTION 10: Stability and Reactivity

<b>10.1 Reactivity</b>	:	No hazardous reactions if stored and handled as prescribed/indicated.
<b>10.2 Chemical stability</b>	:	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	:	Product will not undergo polymerization.
<b>10.4 Conditions to avoid</b>	:	Avoid all sources of ignition: heat, sparks, open flame.
<b>10.5 Incompatible materials</b>	:	Strong acids. Strong bases. Strong oxidizers.
<b>10.6 Hazardous decomposition products</b>	:	No hazardous decomposition products if stored and handled as prescribed/indicated.

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

**Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)**

#### Acute Toxicity Endpoints:

#### Acute oral toxicity

#### Information for the Product:

Shall not be classified as acutely toxic (oral).

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

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Version 1.0

Issue Date: 11.03.2024

---

As product: Single dose oral LD50 has not been determined.

Based on information for component(s): LD50, > 2 000 mg/kg Estimated.

## Information for components:

Benzaldehyde

Toxicity Category IV

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

LD50, rat, 4590 mg/kg

Methyl anthranilate

Not classified

Vanillin

Category 5 based on GHS criteria

Ethyl 2,3-epoxy-3-phenylbutyrate

LD50, rat, 5470 mg/kg

Isopentyl acetate

LD50, rabbit, 7 410 mg/kg bw

3-methylbutyl butyrate

GHS criteria not met

Ethyl butyrate

Not classified

LD50, rat, >2000mg/kg, OECD Guideline 423

## Acute dermal toxicity

### Information for the Product:

Shall not be classified as acutely toxic (dermal).

As product: The dermal LD50 has not been determined.

Based on information for component(s): LD50, > 2 000 mg/kg Estimated.

## Information for components:

Benzaldehyde

Toxicity Category IV

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

LC50, rat, >20 mg/L, estimated

Methyl anthranilate

The study does not need to be conducted

Vanillin

GHS criteria not met

Ethyl 2,3-epoxy-3-phenylbutyrate

not classified

Isopentyl acetate

LOAEL, cat, 11 600 mg/m<sup>3</sup> air

3-methylbutyl butyrate

LC50, rat, >20 mg/L, estimated



# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

---

Ethyl butyrate  
Not classified  
LC50, rat, >7380 mg/m<sup>3</sup>,

## Acute inhalation toxicity

Information for the  
Product:

Shall not be classified as acutely toxic (inhalation).

As product: The LC50 has not been determined.

Information for components:

Benzaldehyde  
Not classified

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one  
LD50, rat, >2000 mg/kg bw

Methyl anthranilate  
Not classified

Vanillin  
GHS criteria not met

Ethyl 2,3-epoxy-3-phenylbutyrate  
LD50, rabbit, >2000 mg/kg, estimated

Isopentyl acetate  
GHS criteria not met

3-methylbutyl butyrate  
GHS criteria not met

Ethyl butyrate  
Not classified LD50, rat, >2000mg/kg

## Skin corrosion/irritation

### Information for the Product:

Shall not be classified as corrosive/irritant to skin.

### Information for components:

Benzaldehyde  
Shall not be classified as corrosive/irritant to skin

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one  
Shall not be classified as corrosive/irritant to skin

Methyl anthranilate  
Shall not be classified as corrosive/irritant to skin

Vanillin  
Shall not be classified as corrosive/irritant to skin

Ethyl 2,3-epoxy-3-phenylbutyrate  
Shall not be classified as corrosive/irritant to skin

Isopentyl acetate  
Shall not be classified as corrosive/irritant to skin

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

---

3-methylbutyl butyrate

Shall not be classified as corrosive/irritant to skin

Ethyl butyrate

Shall not be classified as corrosive/irritant to skin

## Serious eye damage/eye irritation

### Information for the Product:

Shall not be classified as irritant to eye.

### Information for components:

Benzaldehyde

Shall not be classified as irritant to eye

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

Shall not be classified as irritant to eye

Methyl anthranilate

Causes serious eye irritation

Vanillin

Causes serious eye irritation

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as irritant to eye

Isopentyl acetate

Shall not be classified as irritant to eye

3-methylbutyl butyrate

Shall not be classified as irritant to eye

Ethyl butyrate

Shall not be classified as irritant to eye

## Respiratory or skin sensitisation

### Information for the Product:

May cause an allergic skin reaction.

### Information for components:

Benzaldehyde

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Methyl anthranilate

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

---

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Vanillin

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Ethyl 2,3-epoxy-3-phenylbutyrate

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Isopentyl acetate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

3-methylbutyl butyrate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Ethyl butyrate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

## Germ cell mutagenicity

### Information for the Product:

Shall not be classified as germ cell mutagenic.

### Information for components:

Benzaldehyde

Shall not be classified as germ cell mutagenic

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

Shall not be classified as germ cell mutagenic

Methyl anthranilate

Shall not be classified as germ cell mutagenic

Vanillin

Shall not be classified as germ cell mutagenic

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as germ cell mutagenic

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

---

Isopentyl acetate  
Shall not be classified as germ cell mutagenic

3-methylbutyl butyrate  
Shall not be classified as germ cell mutagenic

Ethyl butyrate  
Shall not be classified as germ cell mutagenic

## **Carcinogenicity**

### **Information for the Product:**

Shall not be classified as carcinogenic.

### **Information for components:**

Benzaldehyde  
Shall not be classified as carcinogenic

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one  
Shall not be classified as carcinogenic

Methyl anthranilate  
Shall not be classified as carcinogenic

Vanillin  
Shall not be classified as carcinogenic

Ethyl 2,3-epoxy-3-phenylbutyrate  
Shall not be classified as carcinogenic

Isopentyl acetate  
Shall not be classified as carcinogenic

3-methylbutyl butyrate  
Shall not be classified as carcinogenic

Ethyl butyrate  
Shall not be classified as carcinogenic

## **Reproductive toxicity**

### **Information for the Product:**

Shall not be classified as a reproductive toxicant.

### **Information for components:**

Benzaldehyde  
Shall not be classified as a reproductive toxicant

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one  
Shall not be classified as a reproductive toxicant

Methyl anthranilate  
Shall not be classified as a reproductive toxicant

Vanillin  
Shall not be classified as a reproductive toxicant

Ethyl 2,3-epoxy-3-phenylbutyrate  
Shall not be classified as a reproductive toxicant

Isopentyl acetate

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

---

Shall not be classified as a reproductive toxicant

3-methylbutyl butyrate

Shall not be classified as a reproductive toxicant

Ethyl butyrate

Shall not be classified as a reproductive toxicant

## STOT-single exposure

### Information for the Product:

Shall not be classified as a specific target organ toxicant (single exposure).

### Information for components:

Benzaldehyde

Shall not be classified as a specific target organ toxicant (single exposure)

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

Shall not be classified as a specific target organ toxicant (single exposure)

Methyl anthranilate

Shall not be classified as a specific target organ toxicant (single exposure)

Vanillin

Shall not be classified as a specific target organ toxicant (single exposure)

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as a specific target organ toxicant (single exposure)

Isopentyl acetate

Shall not be classified as a specific target organ toxicant (single exposure)

3-methylbutyl butyrate

Shall not be classified as a specific target organ toxicant (single exposure)

Ethyl butyrate

Shall not be classified as a specific target organ toxicant (single exposure)

## STOT-repeated exposure

### Information for the Product:

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Information for components:

Benzaldehyde

Shall not be classified as a specific target organ toxicant (repeated exposure)

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

Shall not be classified as a specific target organ toxicant (repeated exposure)

Methyl anthranilate

Shall not be classified as a specific target organ toxicant (repeated exposure)

Vanillin

Shall not be classified as a specific target organ toxicant (repeated exposure)

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as a specific target organ toxicant (repeated exposure)

Isopentyl acetate

Shall not be classified as a specific target organ toxicant (repeated exposure)

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

3-methylbutyl butyrate

Shall not be classified as a specific target organ toxicant (repeated exposure)

Ethyl butyrate

Shall not be classified as a specific target organ toxicant (repeated exposure)

## Aspiration Hazard

### Information for the Product:

Shall not be classified as presenting an aspiration hazard.

### Information for components:

Benzaldehyde

Shall not be classified as presenting an aspiration hazard

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

Shall not be classified as presenting an aspiration hazard

Methyl anthranilate

Shall not be classified as presenting an aspiration hazard

Vanillin

Shall not be classified as presenting an aspiration hazard

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as presenting an aspiration hazard

Isopentyl acetate

Shall not be classified as presenting an aspiration hazard

3-methylbutyl butyrate

Shall not be classified as presenting an aspiration hazard

Ethyl butyrate

Shall not be classified as presenting an aspiration hazard

### 11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Information for components:

#### **Benzaldehyde**

The substance is not considered to have endocrine disrupting properties according to REACH Article

#### **(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one**

The substance is not considered to have endocrine disrupting properties according to REACH Article

#### **Methyl anthranilate**

The substance is not considered to have endocrine disrupting properties according to REACH Article

#### **Vanillin**

The substance is not considered to have endocrine disrupting properties according to REACH Article

#### **Ethyl 2,3-epoxy-3-phenylbutyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article

#### **Isopentyl acetate**

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

The substance is not considered to have endocrine disrupting properties according to REACH Article

### **3-methylbutyl butyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article

### **Ethyl butyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Benzaldehyde**

Short-term toxicity to fish

Lowest LC50, bluegill, 1.07 mg/L

Long-term toxicity to fish

NOEC,

Short-term toxicity to aquatic invertebrates

EC50, daphnia, 48h, 19.7 mg/l

Long-term toxicity to aquatic invertebrates

Study waived due to the ready biodegradability of the test substance.

Toxicity to aquatic algae and cyanobacteria

EC50, Pseudokirchneriella subcapitata, 72h, 8.05 mg/l

Toxicity to microorganisms

IC50, activated sludge, 759 mg/L, OECD 209

#### **(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one**

Short-term toxicity to fish

LC50, Pimephales promelas, 96h, 5.09 mg/l

Short-term toxicity to aquatic invertebrates

Acutely toxic for aquatic invertebrates

Toxicity to aquatic algae and cyanobacteria

Acutely harmful to aquatic algae

Toxicity to microorganisms

The inhibition of the degradation activity of activated sludge is not anticipated when introduced in appropriate low concentrations.

EC50, activated sludge, 3h, 100 - 200 mg/l, respiration rates, OECD 209 and ISO 8192

#### **Methyl anthranilate**

Short-term toxicity to fish

LC50, Atlantic salmon, 96h, 32.35 mg/L

Long-term toxicity to fish

LC50, fish, 28d, 7.22 mg/l

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 18.2 mg/L

Long-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 21d, 4.36 mg/L

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

---

Toxicity to aquatic algae and cyanobacteria

LOEC, aquatic algae, 5d, 151.16 mg/L

Toxicity to microorganisms

Minimum Inhibitory Concentration, *Candida albicans*, diphtheroid, 24h, 1000mg/L

## Vanillin

Short-term toxicity to fish

LC50, *Pimephales promelas*, 96h, 57 mg/L, first study

Short-term toxicity to aquatic invertebrates

EC50, *Daphnia magna*, 48h, 36.79 mg/L

Long-term toxicity to aquatic invertebrates

EC50, *Daphnia magna*, 21d, 16 mg/L, OECD202

Toxicity to aquatic algae and cyanobacteria

ErC50, algae *Pseudokirchneriella supcapitata*, 72h, 120 mg/L, OECD guideline and GLP

Toxicity to microorganisms

NOEC, activity of activated sludge, 14d, 100 mg/L, OECD 301C

## Ethyl 2,3-epoxy-3-phenylbutyrate

Short-term toxicity to fish

LC50, fish, 96h, 24.11 to 147.54 mg/L, estimated

Short-term toxicity to aquatic invertebrates

LC50, aquatic invertebrates, 96h, 7.02 to 69.43 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, aquatic algae, 7.71 - 16.5 mg/l, estimated

## Isopentyl acetate

Short-term toxicity to fish

LC50, *Danio rerio*. 96h, 11.1 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates

LC50, 96h, 11.1 mg/L,

Toxicity to aquatic algae and cyanobacteria

EC50, algae, > 100 mg/l.

Toxicity to microorganisms

NOEC, activated sludge, ca. 300 mg/L, OECD TG 209

## 3-methylbutyl butyrate

Short-term toxicity to fish

LC50, *Danio rerio*, 96h, 3.19 mg/L

Short-term toxicity to aquatic invertebrates

EC50, 48h, 8.12 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

EC50, alga, 72h, 4.68 mg/L, OECD Guideline 201

Toxicity to microorganisms

NOEC, 15.1 mg/L, OECD 310

## Ethyl butyrate



# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

Short-term toxicity to fish  
LC50, zebra Fish, 96h, > 100 mg/L.

Long-term toxicity to fish  
NOEC, fish, 28d, 1.483mg/l

Short-term toxicity to aquatic invertebrates  
EC50, Daphnia magna, 116.6 mg/L

Long-term toxicity to aquatic invertebrates  
NOEC, 21d, 28.83 mg/L

Toxicity to aquatic algae and cyanobacteria  
EC50, Alga, 72h, 100 mg/L, OECD Guideline 201

Toxicity to microorganisms  
LOEC, 72h, 236mg/l

## 12.2 Persistence and degradability

Benzaldehyde  
Readily biodegradable

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one  
Readily biodegradable

Methyl anthranilate  
Readily biodegradable

Vanillin  
Readily biodegradable  
Biodegradation:  
97%  
Exposure time: 14d

Ethyl 2,3-epoxy-3-phenylbutyrate  
Readily biodegradable

Isopentyl acetate  
Readily biodegradable

3-methylbutyl butyrate  
Readily biodegradable

Ethyl butyrate  
Inherently biodegradable  
Biodegradation: 50%  
Exposure time: 42d  
Method: OECD Guideline 301 D

## 12.3 Bioaccumulative potential

Benzaldehyde  
Log Kow of 1.4

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one  
Significant accumulation in organisms is not to be expected.  
BCF: 202.4 L/kg

Methyl anthranilate

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

Non-accumulative in aquatic organisms.

BCF: <2000 L/kg

Vanillin

The study does not need to be conducted because the substance has a low potential for bioaccumulation based on log Kow <=3

Isopentyl acetate

BCF (aquatic species):

28.1 L/kg ww

Ethyl butyrate

Non-accumulative in aquatic organisms.

BCF: 7.678 L/kg Estimated

## 12.4 Mobility in soil

Benzaldehyde

Koc: 56( 20 °C)

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

Adsorption to solid soil phase is not expected.

Methyl anthranilate

Koc : 75(20 °C)

Log Koc = 1.87

Vanillin

Koc: 4898(20 °C)

Isopentyl acetate

Koc: 225.4(20 °C)

3-methylbutyl butyrate

Koc: 276.5(20 °C)

Ethyl butyrate

Koc: 22.181(20 °C)

LogKoc: 1.346

## 12.5 Results of PBT and vPvB assessment

### Benzaldehyde

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### (E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Methyl anthranilate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Vanillin

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Ethyl 2,3-epoxy-3-phenylbutyrate

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **Isopentyl acetate**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **3-methylbutyl butyrate**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **Ethyl butyrate**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## **12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Benzaldehyde**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Methyl anthranilate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Vanillin**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Ethyl 2,3-epoxy-3-phenylbutyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Isopentyl acetate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **3-methylbutyl butyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Ethyl butyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **12.7 Other adverse effects**

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

## Benzaldehyde

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## (E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Methyl anthranilate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Vanillin

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Ethyl 2,3-epoxy-3-phenylbutyrate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Isopentyl acetate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## 3-methylbutyl butyrate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Ethyl butyrate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product** : Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

## SECTION 14: Transport Information

### Land transport

ADR/RID/ADN

14.1. UN number : not applicable

14.2. UN proper shipping name: : not applicable

14.3. Transport hazard class(es): : not applicable

14.4. Packing group : not applicable

14.5. Environmental hazards : no

14.6. Special precautions for user : none

### Sea transport

IMDG

14.1. UN number : not applicable

14.2. UN proper shipping name: : not applicable

14.3. Transport hazard class(es): : not applicable

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

- 14.4. Packing group : not applicable  
14.5. Environmental hazards : no  
14.6. Special precautions for user : none  
14.7. Maritime transport in bulk according to IMO instruments Consult IMO regulations before transporting ocean bulk

## Air transport

### IATA/ICAO

- 14.1. UN number: : not applicable  
14.2. UN proper shipping name: : not applicable  
14.3. Transport hazard class(es): : not applicable  
14.4. Packing group: : not applicable  
14.5. Environmental hazards: : no  
14.6. Special precautions for user : none

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

### Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

## SECTION 16: Other information

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

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## Full text of H-Statements referred to under section 3.

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects

## Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA)
vPvB	very Persistent and very Bioaccumulative

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# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-Black Cherry

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

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