

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

Cola Fragrance Oil

Product code

[AL00452]

UFI:

FP90-H0PC-G008-TEF5

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

Relevant identified uses

Ingredient for industrial use: perfume composition

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

Farmadria DOO
Heroja Pinkija 44
26300 Vršac, Serbia
+381695565029
info@avenalab.com

1.4 Emergency Telephone Number

Emergency

112

Supplier

+381695565029

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

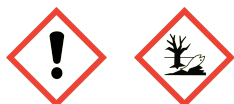
Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Irrit. 2; H319 Causes serious eye irritation.
Aquatic Acute 1; H400 Very toxic to aquatic life.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

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



Signal word: **WARNING**

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

d-limonene
linalyl acetate
cinnamaldehyde
linalool
citral
eugenol
p-mentha-1,4(8)-diene
2-methylundecanal
beta-pinene
limonene
cineole
pin-2(3)-ene

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
benzyl benzoate	120-51-4 204-402-9 607-085-00-9	C= 31.08%	Acute Tox. 4; H302 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	oral: ATE = 1500 mg/kg bw	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
d-limonene	5989-27-5 227-813-5 601-096-00-2	C= 6.84%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 3; H412	/	/
linalyl acetate	115-95-7 204-116-4 -	C= 5.0%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
2,6-dimethyl-7-octen-2-ol	18479-58-8 242-362-4 -	C= 4.5%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336	/	/
cinnamaldehyde	104-55-2 203-213-9 606-155-00-6	C= 1.71%	Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	oral: ATE = 2200 mg/kg bw dermal: ATE = 1100 mg/kg bw	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
linalool	78-70-6 201-134-4 -	C= 1.58%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	oral: ATE = 2790 mg/kg bw	/
citral	5392-40-5 226-394-6 605-019-00-3	C= 1.27%	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	/	/
terpineol	8000-41-7 232-268-1 -	C= 1.27%	Skin Irrit. 2; H315 Eye Irrit. 2; H319	/	/
eugenol	97-53-0 202-589-1 -	C= 1.18%	Skin Sens. 1B; H317 Eye Irrit. 2; H319	oral: ATE = 2500 mg/kg bw	/
decanal	112-31-2 203-957-4 -	C = 1.01%	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	/	/
p-mentha- 1,4(8)-diene	586-62-9 209-578-0 -	C = 0.95%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	oral: ATE = 3775 mg/kg bw	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
2-methylundecanal	110-41-8 203-765-0 -	C = 0.5%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
p-mentha-1,4-diene	99-85-4 202-794-6 -	C = 0.45%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Repr. 2; H361 Aquatic Chronic 2; H411	oral: ATE = 3650 mg/kg bw	/
beta-pinene	127-91-3 204-872-5 -	C = 0.44%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
limonene	138-86-3 205-341-0 601-029-00-7	C = 0.35%	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	C

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
cineole	470-82-6 207-431-5 -	C = 0.34%	Flam. Liq. 3; H226 Skin Sens. 1B; H317	/	/
pin-2(3)-ene	80-56-8 201-291-9 -	C = 0.29%	Flam. Liq. 3; H226 Acute Tox. 4; H302 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	oral: ATE = 500 mg/kg bw	/
7-methyl-3-methylene-1,6-octadiene	123-35-3 204-622-5 -	C= 0.22%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	/	/
Camphene	79-92-5 201-234-8 -	C= 0.21%	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
p-cymene	99-87-6 202-796-7 601-094-00-1	C= 0.19%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 3; H331 Repr. 2; H361 Aquatic Chronic 2; H411	oral: ATE = 4750 mg/kg bw inhalation: ATE = 9.7 mg/l (vapours)	/

Notes for substances

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

Following eye contact

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician! Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Following skin contact

Itching, redness, pain. May cause sensitisation by skin contact (itching, redness, rashes).

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

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

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022/A1:2025).

Hand protection

Protective gloves (EN ISO 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

No information.

Skin protection

Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

Thermal hazards

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	Colorless to pale yellow.
Odour	Citrusy - Vanilla - Spicy
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	81 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

pH	No information.
Viscosity	No information.
Solubility (Water)	soluble
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Relative density	0.9307
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

No information.

10.5 Incompatible materials

No information.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
benzyl benzoate	oral	/	/	/	1160 mg/kg	/	/
benzyl benzoate	dermal	/	/	/	mg/kg	/	/
linalyl acetate	oral	LD ₅₀	rat	/	> 9000 mg/kg	/	/
linalyl acetate	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
linalyl acetate	oral	LD ₅₀	mouse	/	12000 mg/kg	/	/
2,6-dimethyl-7-octen-2-ol	oral	LD ₅₀	rat	/	3020 mg/kg	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
2,6-dimethyl-7-octen-2-ol	dermal	LD ₅₀	rabbit	/	> 5 g/kg	/	/
cinnamald ehyde	oral	LD ₅₀	rat	/	2221 mg/kg	/	/
cinnamald ehyde	dermal	LD ₅₀	rabbit	/	1261 mg/kg	/	/
cinnamald ehyde	inhalation	LC ₅₀	rat	/	68.9 mg/kg	/	/
linalool	/	ATE	/	/	2790 mg/kg	/	Linalool ETAO : 2 790,00 mg/kg(Dét erminée) ETAC : Non déterminé e ETAI : Non déterminé e
citral	Intraperitoneal	LD ₅₀	rat	/	460 mg/kg	/	/
citral	oral	LD ₅₀	mouse	/	6000 mg/kg	/	/
citral	oral	LD ₅₀	rat	/	4960 mg/kg	/	/
terpineol	oral	/	/	/	4300 mg/kg	/	/
eugenol	oral	/	/	/	2500 mg/kg	/	/
decanal	oral	LD ₅₀	rat	/	3730 mg/kg	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
decanal	dermal	LD ₅₀	rabbit	/	5040 mg/kg	/	/
p-mentha-1,4(8)-diene	/	ATE	/	/	3775 mg/kg	/	Terpinolene ETAO : 3 775,00 mg/kg(Déterminée) ETAC : Non déterminée ETAI : Non déterminée
2-methylundecanal	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
2-methylundecanal	dermal	LD ₅₀	rabbit	/	> 8280 mg/kg	/	/
p-mentha-1,4-diene	oral	LD ₅₀	/	/	3850 mg/kg	/	/
cineole	oral	/	/	/	2479.97 mg/kg	/	/
pin-2(3)-ene	/	ATE	/	/	500 mg/kg	/	alpha-Pinene ETAO : 500,00 mg/kg(Estimée) ETAC : Non déterminée ETAI : Non déterminée

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
7-methyl-3-methylene-1,6-octadiene	oral	LD ₅₀	rat	/	> 11390 mg/kg bw	/	/
7-methyl-3-methylene-1,6-octadiene	oral	LD ₅₀	mouse	/	> 3380 mg/kg bw	/	/
7-methyl-3-methylene-1,6-octadiene	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg bw	OECD 402	/
Camphene	oral	LD ₅₀	rat	/	5000 mg/kg	/	/
Camphene	dermal	LD ₅₀	rabbit	/	2500 mg/kg	/	/
p-cymene	oral	LD ₅₀	rat	/	4750 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	Result	Method	Remark
d-limonene	/	/	Irritating.	/	/
2,6-dimethyl-7-octen-2-ol	/	/	Irritating.	/	/
cinnamaldehyde	/	/	Irritating to skin.	OECD 404	/
citral	/	/	Irritating.	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Species	Time	Result	Method	Remark
citral	/	/	May cause sensitisation by skin contact.	/	/
2-methylundecanal	/	/	Irritating to skin.	/	/
limonene	/	/	Irritating.	/	/

Additional information

Causes skin and eye irritation.

(c) Serious eye damage/irritation

For product

Species	Time	Result	Method	Remark
/	/	The product is classified Eye Irrit. 2 according to the referenced regulation.	/	/

For components

Name	Exposure route	Species	Time	Result	Method	Remark
cinnamaldehyde	/	/	/	Causes serious eye irritation.	OECD 405 Acute Eye Irritation/Corrosion	/
citral	/	rabbit	/	Irritating.	OECD 405	/

(d) Respiratory or skin sensitisation

For product

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Exposure route	Species	Time	Result	Method	Remark
/	/	/	The product is classified Skin Sens. 1B according to the referenced regulation.	/	/
/	/	/	The product is not classified.	/	/

For components

Name	Exposure route	Species	Time	Result	Method	Remark
cinnamaldehyde	dermal	/	/	Causes sensitization.	/	/
citral	dermal	/	/	Sensitizing.	/	/
2-methylundecanal	/	/	/	May cause sensitisation by skin contact.	/	/

Additional information

It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction. May cause an allergic skin reaction. Skin sensitisation: The product is classified Skin Sens. 1B according to the referenced regulation. May cause an allergic skin reaction. Sensitisation to the respiratory tract: The product is not classified.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	Result	Method	Remark
citral	Genotoxicity	/	/	Negative.	/	in vitro
citral	in-vivo mutagenicity	/	/	Negative.	OECD 471	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Type	Species	Time	Result	Method	Remark
citral	Genotoxicity	mouse	/	Studies in vivo have shown it is not genotoxic.	OECD 474	/

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
citral	oral	NOEL	rat	/	> 100 mg/kg	/	OECD 453	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
citral	Developmental toxicity	NOAEL	rat	/	200 mg/kg bw/day	/	OECD 421	oral
citral	Developmental toxicity	NOAEL	rat	/	423 mg/m ³	/	/	inhalation
citral	Reproductive toxicity	NOAEL	rat	/	> 1000 mg/kg bw/day	/	OECD 421	/

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction. Carcinogenicity: The product is not classified. Reproductive toxicity: The product is not classified. Germ cell mutagenicity: The product is not classified.

(h) STOT-single exposure

For components

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
citral	-	-	/	/	/	/	/	Symptoms: difficulty breathing, drowsiness, cough, headache, gastrointestinal problems, mucosal irritation, nausea.	/	/

Additional information

STOT SE (single exposure): Not classified. Specific target organ toxicity (repeated exposure): The product is not classified.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
7-methyl-3-methylene-1,6-octadiene	oral	LOAEL	rat	90 days	/	/	250 mg/kg bw	/	OECD 408	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
7-methyl-3-methylene-1,6-octadiene	oral	NOAEL	animal/female	90 days	sub-chronic	/	500 mg/kg bw	/	OECD 408	/
7-methyl-3-methylene-1,6-octadiene	oral	NOAEL	animal/male	90 days	sub-chronic	/	250 mg/kg bw	/	OECD 408	/

Additional information

STOT RE (repeated exposure): Not classified. Specific target organ toxicity (single exposure): The product is not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
linalyl acetate	LC ₅₀	11 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
linalyl acetate	EC ₅₀	15 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
linalyl acetate	NOEC	9.6 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
citral	LC ₅₀	19 mg/L	96 h	fish	/	/	/
citral	EC ₅₀	7 mg/L	48 h	crustacea	/	/	/
citral	EC ₅₀	16 mg/L	72 h	algae	/	/	/
2-methylundecanal	ErC ₅₀	0.18 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
2-methylundecanal	LC ₅₀	0.35 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	/
2-methylundecanal	EC ₅₀	0.21 mg/L	48 h	<i>Daphnia</i>	<i>Daphnia magna</i>	OECD 202	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
beta-pinene	/	0.826 mg/L	48 h	algae/aquatic plants	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
beta-pinene	/	0.502 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD 203	/
beta-pinene	/	326 mg/L	3 h	microorganisms	Activated sludge	OECD 209	/
beta-pinene	/	1.248 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
cineole	LC ₅₀	57 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	ECHA
cineole	ErC ₅₀	> 100 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	ECHA
cineole	EC ₅₀	> 100 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	ECHA
cineole	EC ₅₀	> 100 mg/L	3 h	bacteria	Activated sludge	OECD 209	ECHA

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
citral	NOEC	68 mg/L	/	/	/	OECD 209	0,02083 days
citral	NOEC	3 mg/L	3 days	algae	<i>Desmodesmus subspicatus</i>	DIN 38412 L 9	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Additional information

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
linalyl acetate	biodegradability	76 %	28 days	rapidly biodegradable	OECD 301 F	/
citral	aerobic	90 %	28 days	readily biodegradable	EU Method C.4-D	/
2-methylundecanal	biodegradability	68 % O ₂	/	biodegradable	OECD 301 F	/
beta-pinene	biodegradation	76 %	28 days	readily biodegradable	OECD 301 D	Oxygen consumption
cineole	biodegradability	82 %	28 days	readily biodegradable	OECD 301 F	ECHA

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	Value	Temperature °C	pH	Concentration	Method
linalyl acetate	3.9	/	/	/	OECD 107
citral	2.76	/	/	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Value	Temperature °C	pH	Concentration	Method
terpineol	2.6	/	/	/	/
2-methylundecanal	0.6	/	/	/	/
beta-pinene	26610	/	/	/	OECD 107
cineole	3.4	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
linalyl acetate	/	/	9.7 - 90.5	/	/	/	/
citral	BCF	/	89.72	/	/	/	/
terpineol	BCF	/	24.13	/	Low bioaccumulation potential.	/	/
beta-pinene	BCF	/	1125	/	L/kg	/	/
cineole	BCF	/	125	/	/	/	QSAR

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

Name	Type	Criterion	Value	Evaluation	Method	Remark
citral	Soil	/	147.7	/	/	Koc
2-methylundecanal	Soil	/	3981	/	OECD 121	mobility in soil
beta-pinene	Soil	log KOC	1020	/	/	/

Additional information

The product has not been tested.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

For product

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB. According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

12.7 Other adverse effects

not available

12.8 Additional information

For product

Very toxic to aquatic organisms. Do not allow to reach ground water, water courses or sewage system.
Additional ecotoxicological information Not available

For components

citral

Low bioaccumulation potential.

2-methylundecanal

This substance is not PBT-/vPvB.

beta-pinene

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	IMDG	IATA	ADN
UN 3082	UN 3082	UN 3082	UN 3082

14.2 UN proper shipping name

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

ADR/RID	IMDG	IATA	ADN
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
9	9	9	9
 	 	 	 

14.4 Packing group

ADR/RID	IMDG	IATA	ADN
III	III	III	III

14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
YES	Marine pollutant	YES	YES

14.6 Special precautions for user

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

ADR/RID	IMDG	IATA	ADN
Limited quantities: 5 L Special provisions: 274, 335, 375, 601, 650 Packing Instructions: P001, IBC03, LP01, R001 Special packing provisions: PP1 Transport category: 3 Tunnel restriction code: (-) Classification code: M6	Limited quantities: 5 L EmS: F-A, S-F Flash point: 81 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst): Y964 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg): 30, kg, G Packing Instructions (Pkg Inst): 964 Maximum Net Quantity/Package (Max Net Qty/Pkg): 450, L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst): 964 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg): 450, L Special provisions: A97, A158, A197, A215 Excepted quantities: E1 ERG code: 9L	Limited quantities: 5 L

14.7 Maritime transport in bulk according to IMO instruments

ADR/RID	IMDG	IATA	ADN
/	Goods may not be carried in bulk in bulk containers, containers or vehicles.	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

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

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cola Fragrance Oil

Creation date: 02.05.2026, Revision: 02.05.2026, Version: 1.0

1907/2006)

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.