

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

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

1.1 Product identifier

Product name

Basil (Green) Essential Oil

Product code

[AC00090]

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

Relevant identified uses

Fragrances / Cosmetic / Flavours

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)

Skin Irrit. 2; H315 Causes skin irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

Eye Irrit. 2; H319 Causes serious eye irritation.

Muta. 2; H341 Suspected of causing genetic defects.

Carc. 1B; H350 May cause cancer.

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: DANGER

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.

P272 Contaminated work clothing should not be allowed out of the workplace.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

linalool

eugenol

cineole

estragole (methyl chavicol)

beta-pinene

limonene

Nerolidol

citral

beta-Bisabolene

pin-2(3)-ene

3,7-dimethyl-6-octen-1-ol

geraniol



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

linalyl acetate
Geranyl acetate
carvone (ISO)
caryophyllene

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
linalool	78-70-6 201-134-4 603-235-00-2	> 50 %	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
eugenol	97-53-0 202-589-1 -	[5-10]	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, 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 -	[5-10]	Flam. Liq. 3; H226 Skin Sens. 1B; H317	/	/
estragole (methyl chavicol)	140-67-0 205-427-8 -	[1-5]	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Muta. 2; H341 Carc. 1B; H350 Aquatic Chronic 3; H412	oral: ATE = 1230 mg/kg bw	/
terpineol	8000-41-7 232-268-1 -	[1-5]	Skin Irrit. 2; H315 Eye Irrit. 2; H319	/	/
7-methyl-3- methylene-1,6- octadiene	123-35-3 204-622-5 -	[1-5]	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	/	/



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
beta-pinene	127-91-3 204-872-5 -	[1-5]	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	5989-27-5 205-341-0 601-029-00-7	[0-1]	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	/	/
Nerolidol	7212-44-4 230-597-5 -	[0-1]	Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
citral	5392-40-5 226-394-6 605-019-00-3	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319	/	/



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
methyl eugenol	93-15-2 202-223-0 -	[0-1]	Acute Tox. 4; H302 Muta. 2; H341 Carc. 2; H351	oral: ATE = 1180 mg/kg bw	/
beta- Bisabolene	495-61-4 - -	[0-1]	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Acute Tox. 4; H332 Aquatic Chronic 2; H411	inhalation: ATE = 1.5 mg/l (vapours)	/
pin-2(3)-ene	80-56-8 201-291-9 -	[0-1]	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	/
3,7-dimethyl-6- octen-1-ol	106-22-9 203-375-0 -	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
p-mentha-1,4- diene	99-85-4 202-794-6 -	[0-1]	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Repr. 2; H361 Aquatic Chronic 2; H411	/	/
geraniol	106-24-1 203-377-1 -	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Dam. 1; H318	/	/
p-mentha- 1,4(8)-diene	586-62-9 209-578-0 -	[0-1]	Asp. Tox. 1; H304 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
linalyl acetate	115-95-7 204-116-4 -	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
Camphene	79-92-5 201-234-8 -	[0-1]	Flam. Sol. 2; H228 Eye Irrit. 2; H319 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Geranyl acetate	105-87-3 203-341-5 -	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	/	/
carvone (ISO)	99-49-0 202-759-5 -	[0-1]	Skin Sens. 1B; H317	/	/
caryophyllene	87-44-5 201-746-1 -	[0-1]	Asp. Tox. 1; H304 Skin Sens. 1B; H317	/	/

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. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs, provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

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. Consult a physician.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Do not induce vomiting! Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. 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. Aspiration into the lungs causes coughing, shortness of breath and may lead to chemical pneumonia.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. After the product has been ingested vomiting can cause aspiration into the lungs. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided.

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

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

5.3 Advice for firefighters

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

Stem the spill if this does not pose risks.

For cleaning up

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

Store only in original container.

Requirements for storage rooms and vessels

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

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SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

For product

No information.

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

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	Pale yellow to amber yellow
Odour	Characteristic, spicy, slightly aniseed
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.



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Flash point	80 °C (close cup)
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility (Organic solvent)	soluble ethanol
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Density	0.895 — 0.92 g/cm ³ at 20 °C
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.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

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 product

Exposure route	Type	Species	Time	Value	Method	Remark
oral	LD ₅₀	rat	/	3812.28 mg/kg	/	/

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
linalool	oral	/	/	/	2790 mg/kg	/	/
eugenol	oral	/	/	/	2500 mg/kg	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
cineole	oral	/	/	/	2479.97 mg/kg	/	/
estragole (methyl chavicol)	oral	/	/	/	1230 mg/kg	/	/
terpineol	oral	/	/	/	4300 mg/kg	/	/
citral	Intraperitoneal	LD ₅₀	rat	/	460 mg/kg	/	/
citral	oral	LD ₅₀	mouse	/	6000 mg/kg	/	/
citral	oral	LD ₅₀	rat	/	4960 mg/kg	/	/
pin-2(3)-ene	/	ATE	/	/	500 mg/kg	/	ETAO : 500,00 mg/kg(Estimée) ETAC : Non déterminée ETAI : Non déterminée
3,7-dimethyl-6-octen-1-ol	/	ATE	/	/	3450 mg/kg	/	ETAO : 3450,00 mg/kg(Déterminée) ETAC : 2650,00 mg/kg(Déterminée) ETAI : Non déterminée



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
3,7-dimethyl-6-octen-1-ol	/	ATE	/	/	2650 mg/kg	/	ETAO : 3 450,00 mg/kg(Déterminée) ETAC : 2 650,00 mg/kg(Déterminée) ETAI : Non déterminée
p-mentha-1,4-diene	oral	LD ₅₀	/	/	3850 mg/kg	/	/
geraniol	oral	/	/	/	3600 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	/	/
Camphene	oral	LD ₅₀	rat	/	5000 mg/kg	/	/
Camphene	dermal	LD ₅₀	rabbit	/	2500 mg/kg	/	/
Geranyl acetate	oral	LD ₅₀	rat	/	6330 mg/kg	/	/
Geranyl acetate	dermal	LD ₅₀	rabbit	/	> 5460 mg/kg	/	/
carvone (ISO)	oral	LD ₅₀	/	/	= 1600 mg/kg	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
carvone (ISO)	dermal	LD ₅₀	/	/	= 3800 mg/kg	/	/
caryophyllene	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
caryophyllene	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	Result	Method	Remark
citral	/	/	Irritating.	/	/
citral	/	/	May cause sensitisation by skin contact.	/	/

Additional information

Causes skin and eye irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
citral	/	rabbit	/	Irritating.	OECD 405	/

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
citral	dermal	/	/	Sensitizing.	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Additional information

May cause an allergic skin reaction.

(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	/
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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
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.

(h) STOT-single exposure

For components

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.

(i) STOT-repeated exposure

No information.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

May be fatal if swallowed and enters airways.

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

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
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
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	/
Nerolidol	LC ₅₀	1.43 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
Nerolidol	EC ₅₀	0.5103 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
Nerolidol	EC ₅₀	2 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	/	/	/
p-mentha-1,4(8)-diene	LC ₅₀	0.805 mg/L	96	fish	<i>Danio rerio</i>	/	/



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
p-mentha-1,4(8)-diene	EC ₅₀	0.634 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
p-mentha-1,4(8)-diene	EC ₅₀	69 mg/L	3 h	other aquatic organisms	/	/	/
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>	/	/
Geranyl acetate	EC ₅₀	14.1 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
Geranyl acetate	ErC ₅₀	3.72 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	/
Geranyl acetate	NOEC	0.585 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

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

Additional information

Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
cineole	biodegradability	82 %	28 days	readily biodegradable	OECD 301 F	ECHA
beta-pinene	biodegradation	76 %	28 days	readily biodegradable	OECD 301 D	Oxygen consumption
Nerolidol	biodegradability	70 %	28 days	readily biodegradable	/	/
citral	aerobic	90 %	28 days	readily biodegradable	EU Method C.4-D	/
p-mentha-1,4(8)-diene	biodegradation	81 %	28 days	Readily biodegradable in water.	/	/
linalyl acetate	biodegradability	76 %	28 days	rapidly biodegradable	OECD 301 F	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Type	Rate	Time	Evaluation	Method	Remark
Geranyl acetate	/	/	/	Rapidly degradable.	/	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	Value	Temperature °C	pH	Concentration	Method
cineole	3.4	/	/	/	/
terpineol	2.6	/	/	/	/
beta-pinene	26610	/	/	/	OECD 107
Nerolidol	4.5	/	/	/	/
citral	2.76	/	/	/	/
p-mentha-1,4(8)-diene	4.47	/	/	/	/
linalyl acetate	3.9	/	/	/	OECD 107
Geranyl acetate	4.04	/	/	/	OECD 117

Bioconcentration factor (BCF)

For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
cineole	BCF	/	125	/	/	/	QSAR
terpineol	BCF	/	24.13	/	Low bioaccumulation potential.	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
beta-pinene	BCF	/	1125	/	L/kg	/	/
citral	BCF	/	89.72	/	/	/	/
linalyl acetate	/	/	9.7 - 90.5	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
beta-pinene	Soil	log KOC	1020	/	/	/
Nerolidol	/	KOC	1332	/	QSAR	/
citral	Soil	/	147.7	/	/	Koc
p-mentha-1,4(8)-diene	/	log KOC	2.619 - 3.049	/	/	/

Additional information

PNEC soil :

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

For product

vPvB : PBT : The product does not contain substances identified as having endocrine disrupting properties (environment) in concentrations equal to or greater than 0.1% (m/m).

12.7 Other adverse effects

Not concerned

12.8 Additional information

For product

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not allow to reach ground water, water courses or sewage system.

For components

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).

citral

Low bioaccumulation potential.

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.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

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
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.4 Packing group

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, Revision: 16.04.2026, Version: 1.0

14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
NO	NO	NO	NO

14.6 Special precautions for user

ADR/RID	IMDG	IATA	ADN
Limited quantities: Not given/not applicable	Limited quantities: Not given/not applicable		Limited quantities: Not given/not applicable

14.7 Maritime transport in bulk according to IMO instruments

ADR/RID	IMDG	IATA	ADN
/	Not given/not applicable	/	/

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

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
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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

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 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.
H228 Flammable solid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Basil (Green) Essential Oil

Creation date: 16.04.2026, **Revision:** 16.04.2026, **Version:** 1.0

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H351 Suspected of causing cancer.
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.

