



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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

1.1 Product identifier

Product name

Hydroxycitronellal

Product code

[AC00061]

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

2.1 Classification of the substance or mixture

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

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

Eye Irrit. 2; H319 Causes serious eye irritation.

2.2 Label elements

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



Signal word: WARNING

Hazard statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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:

7-hydroxycitronellal

citronellal

citral

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

geraniol

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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
7-hydroxycitronellal	107-75-5 203-518-7 - 01- 2119973482-31	> 50 %	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
citronellal	106-23-0 203-376-6 -	[1-5]	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
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	/	/
3,7-dimethyl-6-octen-1-ol	106-22-9 203-375-0 - 01- 2119453995-23	[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: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
geraniol	106-24-1 203-377-1 - 01- 2119552430- 49	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Dam. 1; H318	/	/

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

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, **Revision:** 03.04.2026, **Version:** 1.0

Contact with skin may cause irritation (redness, itching). 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

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

No information.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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.

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.



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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

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.



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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	colourless
Odour	Sweet muguet
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	241 °C
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	113 °C (close cup)
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility (Water)	insoluble
Solubility (Organic solvent)	soluble alcohol
Partition coefficient n-octanol/water (log value)	1.654 (est)
Vapour pressure	No information.



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Relative density	0.916 — 0.922 at 25 °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

Avoid powerful oxidising agents

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

Avoid any potential source of heat.

10.5 Incompatible materials

No information.

10.6 Hazardous decomposition products



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Thermal decomposition / conditions to be avoided: Avoid contact with any flame or spark, flame, Overheat. Avoid Direct rays of the sun. No decomposition if used according to specifications. Dangerous decomposition products: No dangerous decomposition products known.

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
7-hydroxycitronellal	dermal	LD ₅₀	rabbit	/	2000 mg/kg	/	/
7-hydroxycitronellal	oral	LD ₅₀	rat	/	6800 mg/kg	/	/
citronellal	oral	LD ₅₀	rat	/	2420 mg/kg	/	/
citronellal	dermal	LD ₅₀	rat	/	> 2000 mg/kg bw	/	/
citronellal	dermal	LD ₅₀	rabbit	/	2500 - 5000 mg/kg bw	/	/
citral	Intraperitoneal	LD ₅₀	rat	/	460 mg/kg	/	/
citral	oral	LD ₅₀	mouse	/	6000 mg/kg	/	/
citral	oral	LD ₅₀	rat	/	4960 mg/kg	/	/
3,7-dimethyl-6-octen-1-ol	oral	LD ₅₀	rat	/	3450 mg/kg	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
3,7-dimethyl-6-octen-1-ol	inhalation	LC ₅₀	/	/	> 100 mg/L	/	/
3,7-dimethyl-6-octen-1-ol	dermal	LD ₅₀	rabbit	/	2650 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.	/	/
3,7-dimethyl-6-octen-1-ol	rabbit	/	Irritating.	OECD 404	/

(c) Serious eye damage/irritation

For components

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

Additional information

Causes serious eye irritation.

(d) Respiratory or skin sensitisation

For components

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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

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
citronella l	oral	NOAEL	mouse (male)	2 years	60 mg/kg bw	/	OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies	chronic
citral	oral	NOEL	rat	/	> 100 mg/kg	/	OECD 453	/

(g) Reproductive toxicity

For components

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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.

(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.	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
citronellal	inhalation (gases)	LOAEC	rat (female)	90 days	/	/	68 ppm	/	/	/
citronellal	oral	NOAEL	rat	90 days	/	/	100 mg/kg bw	/	OECD 453	/
citronellal	inhalation (gases)	NOAEC	rat (female)	90 days	/	/	34 ppm	/	/	/
citronellal	oral	NOAEL	mouse (male)	90 days	sub-chronic	/	60 mg/kg bw	/	OECD 453	/

Additional information

STOT RE (repeated exposure): 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.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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
7-hydroxycitronellal	LC ₅₀	31.6 mg/L	96 h	fish	/	/	/
7-hydroxycitronellal	EC ₅₀	410 mg/L	48 h	crustacea	/	/	/
7-hydroxycitronellal	EC ₅₀	123.32 mg/L	72 h	algae	/	/	/
7-hydroxycitronellal	NOEC	42.36 mg/L	72 h	algae	/	/	/
citronellal	LC ₅₀	ca. 22 mg/L	/	fish	<i>Leuciscus idus</i>	/	/
citronellal	EC ₅₀	8.7 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
citronellal	EC ₅₀	13.33 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
citronellal	EC ₅₀	6.74 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
citronellal	EC ₅₀	13.33 mg/L	96 h	algae	/	/	ECHA
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	/	/	/
3,7-dimethyl-6-octen-1-ol	IC ₅₀	2.4 mg/L	72 h	algae	/	/	/
3,7-dimethyl-6-octen-1-ol	LC ₅₀	10 - 22 mg/L	96 h	fish	<i>Leuciscus idus</i>	/	/
3,7-dimethyl-6-octen-1-ol	EC ₅₀	17 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
3,7-dimethyl-6-octen-1-ol	EC ₅₀	> 10000 mg/L	30 min	bacteria	<i>Pseudomonas putida</i>	/	/
geraniol	LC ₅₀	22 mg/L	96 h	fish	<i>Danio rerio</i>	/	static system
geraniol	ErC ₅₀	13.1 mg/L	72 h	algae	<i>Scenedesmus capricornutum</i>	/	static test

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
geraniol	NOEC	1 mg/L	72 h	fish	<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
citral	NOEC	3 mg/L	3 days	algae	<i>Desmodesmus subspicatus</i>	DIN 38412 L 9	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
7-hydroxycitronellal	solubility in water	35 g/L	/	/	/	/
citral	aerobic	90 %	28 days	readily biodegradable	EU Method C.4-D	/
3,7-dimethyl-6-octen-1-ol	biodegradability	90 %	/	/	OECD 301 F	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

Name	Type	Rate	Time	Evaluation	Method	Remark
geraniol	biodegradability	90 %	28 days	readily biodegradable	/	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For product

Value	Temperature °C	pH	Concentration	Method
1.654	/	/	/	est

For components

Name	Value	Temperature °C	pH	Concentration	Method
7-hydroxycitronellal	1.68	/	/	/	/
citronellal	3.48	/	/	/	/
citral	2.76	/	/	/	/
3,7-dimethyl-6-octen-1-ol	3.41	/	/	/	/
geraniol	2.6	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
citral	BCF	/	89.72	/	/	/	/
3,7-dimethyl-6-octen-1-ol	BCF	/	82.59	/	/	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

For components

Name	Air	Water	Soil	Sediment	(Aquatic) Biota	Method	Remark
citronellal	/	/	652.1	/	/	/	/

Surface tension

No information.

Adsorption/Desorption

For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
citral	Soil	/	147.7	/	/	Koc
3,7-dimethyl-6-octen-1-ol	Soil	log KOC	1.85	/	/	/
geraniol	Soil	/	70.79	/	/	Koc

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

No information.

12.8 Additional information

For product



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, **Revision:** 03.04.2026, **Version:** 1.0

Product is not classified as hazardous for environment. Do not allow to reach ground water, water courses or sewage system.

For components

citral

Low bioaccumulation potential.

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

Contains compounds that are according to regulations classified as toxic to aquatic organisms, which may cause long-term adverse effects in the aquatic environment.

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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

14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
NO	NO	NO	NO

14.6 Special precautions for user

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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

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



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, Revision: 03.04.2026, Version: 1.0

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
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)



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Hydroxycitronellal

Creation date: 03.04.2026, **Revision:** 03.04.2026, **Version:** 1.0

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.