

Date of issue: 01/25/2025

Reviewed on 01/25/2025





Date of issue: 01/25/2025

Reviewed on 01/25/2025

	(Continuation of page 1)
Signal word W	
lazard-detern	nining components of labeling:
lazard statem	oonte
H315 Causes s	
	serious eye irritation.
	se an allergic skin reaction.
Precautionary	
261 2 61	Avoid breathing dust/fume/gas/mist/vapors/spray
280	Wear protective gloves / eye protection / face protection.
'305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
2333+P313	If skin irritation or rash occurs: Get medical advice/attention.
2337+P313	If eye irritation persists: Get medical advice/attention.
°501	Dispose of contents/container in accordance with local/regional/national/international regulations.
IFPA ratings	(scale 0 - 4)
	ealth = 2
Fi	
2 0 Fi	ealth = 2 ire = 1 eactivity = 0
1 1 Fi 2 0 Fi HIS-ratings 1 HEALTH 2 FIRE 1	ealth = 2 ire = 1 eactivity = 0
2 0 Fi IMIS-ratings (1 HEALTH 2 1 FIRE 1 1 REACTIVITY 0 1 Other hazards 1 1	ealth = 2 ire = 1 eactivity = 0 (scale 0 - 4) Health = 2 Fire = 1 Reactivity = 0
2 0 Fi IMIS-ratings (HEALTH 2 F FIRE 1 F REACTIVITY 0 F Other hazards Results of PB	ealth = 2 ire = 1 eactivity = 0 (scale 0 - 4) Health = 2 Fire = 1 Reactivity = 0 T and vPvB assessment
2 0 Fi IMIS-ratings Fi Fire 1 Reactivity Fi Other hazards Results of PB' PT: Not applied Fi	ealth = 2 ire = 1 eactivity = 0 (scale $0 - 4$) Health = 2 Fire = 1 Reactivity = 0 T and vPvB assessment cable.
2 0 Fi IMIS-ratings (HEALTH 2 F FIRE 1 F REACTIVITY 0 F Other hazards Results of PB PBT: Not appli PVB: Not app	ealth = 2 ire = 1 eactivity = 0 (scale $0 - 4$) Health = 2 Fire = 1 Reactivity = 0 T and vPvB assessment cable. licable.
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2 0 Fi MIS-ratings (HEALTH 2 FIRE 1 REACTIVITY 0 Cher hazards Cher hazards PDT: Not applie PVB: Not applie PVB: Not applie PVB: Not applie Classification The SDS issu recursor produced lazards not o Chere are no action the communication	ealth = 2 ire = 1 eactivity = 0 (scale 0 - 4) Health = 2 Fire = 1 Reactivity = 0 T and vPvB assessment cable. licable. according to (d)(1)(ii) of § 1910.1200 er does not object to the classifications provided by importers or manufacturers of ucts. therwise classified dverse physical or health effects known that are not covered by the hazard classes of the

Identification number(s)
 EC number: 203-375-0

(Continued on page 3)

US



Date of issue: 01/25/2025

Reviewed on 01/25/2025

Trade name: Citronellol Organic

(Continuation of page 2)

4 First-aid measures

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** CO2, powder or alcoholresistant foam.
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.
- Additional information
- Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Protective Action Criteria for Chemicals
- · PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

PAC-3:

Substance is not listed.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Continued on page 4)



Date of issue: 01/25/2025

Trade name: Citronellol Organic

(Continuation of page 3)

7 Handling and storage

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
- Please refer to the product specification and/or Certificate of Analysis for product storage requirements. Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as a basis.
- Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Breathing equipment:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

(Continued on page 5)

115



Date of issue: 01/25/2025

Reviewed on 01/25/2025

Trade name: Citronellol Organic (Continuation of page 4) · Eye protection: Tightly sealed goggles 9 Physical and chemical properties Information on basic physical and chemical properties General Information Molecular Weight: 156.27 g/mol · Physical state Liquid · Color: According to product specification · Odor: According to product specification · Odor threshold: Not determined. · Melting point/Melting range: Undetermined. · Boiling point/Boiling range: 225-226 °C (437-438.8 °F) · Flammability: Not applicable. · Explosion limits: · Lower: Not determined. · Upper: Not determined. · Flash point: 107 °C (224.6 °F) · Decomposition temperature: Not determined. · pH-value: Not determined. Viscositv: · Kinematic: Not determined. · Dynamic: Not determined. · Solubility in / Miscibility with · Water: Not miscible or difficult to mix. · Partition coefficient (n-octanol/water): Not determined. · Vapor pressure: Not determined. · Vapor pressure: Density at 20 °C (68 °F): 0.87 g/cm³ (7.26015 lbs/gal) · Relative density Not determined. · Refractive Index · Vapor density Not determined. · Particle characteristics Not applicable. · Other information · Appearance: · Form: Liquid · Important information on protection of health and environment, and on safety. · Ignition temperature: Not determined. • Danger of explosion: Product does not present an explosion hazard. VOC content: 0.00 % 0.0 g/l / 0.00 lb/gal Change in condition · Evaporation rate Not determined.

(Continued on page 6)

us



Date of issue: 01/25/2025

Reviewed on 01/25/2025

Trade name: Citronellol Organic

(Continuation of page 5)

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

		y. les that are relevant for classification:
-		9 dl-Citronellol
		3,450 mg/kg (ATE)
Ulai	LD30	3,450 mg/kg (rat)
Dormal		2,650 mg/kg (ATE)
Demai	LDSU	2,650 mg/kg (rabbit)
Drimer		
		nt effect: No irritant effect.
		ritating effect.
ON THA		
Sensitiz	zation	No sensitizing effects known.
Sensitiz Additio	zation: nal to:	: No sensitizing effects known. xicological information:
Sensitiz Additio Interact	zation: nal tox tive eff	: No sensitizing effects known. xicological information: fects No interactive effects between components are known.
Sensitiz Additio Interact Carcino	zation: nal tox tive eff ogenic	: No sensitizing effects known. xicological information: fects No interactive effects between components are known. categories
Sensitiz Additio Interact Carcino	zation: nal tox tive eff ogenic	: No sensitizing effects known. xicological information: fects No interactive effects between components are known.
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Sensitiz Additio Interact Carcino IARC (In Substar NTP (Na Substar	zation: nal tox tive effo ogenic nterna nce is r ationa	: No sensitizing effects known. xicological information: fects No interactive effects between components are known. categories tional Agency for Research on Cancer) not listed. I Toxicology Program)
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- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

(Continued on page 7)

⁻US



Date of issue: 01/25/2025

Reviewed on 01/25/2025

Trade name: Citronellol Organic

(Continuation of page 6)

Other adverse effects
 Additional ecological information:

· General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

Tuesses at infermenties	
Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not Regulated
UN proper shipping name DOT, ADN, IMDG, IATA	Not Regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA Class	Not Regulated
Packing group DOT, IMDG, IATA	Not Regulated
Environmental hazards: Marine pollutant:	Yes
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	t II of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
Special precautions for user	Not applicable.
UN "Model Regulation":	Not Regulated

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara

• Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

(Continued on page 8)

US



Date of issue: 01/25/2025

Reviewed on 01/25/2025

Trade name: Citronellol Organic			
(Continuation of page 7)			
TSCA (Toxic Substances Control Act):			
ACTIVE			
· Hazardous Air Pollutants			
Substance is not listed.			
· Proposition 65			
· Chemicals known to cause cancer:			
Substance is not listed.			
· Chemicals known to cause reproductive toxicity for females:			
Substance is not listed.			
· Chemicals known to cause reproductive toxicity for males:			
Substance is not listed.			
· Chemicals known to cause developmental toxicity:			
Substance is not listed.			
Carcinogenic categories			
· EPA (Environmental Protection Agency) Substance is not listed.			
TLV (Threshold Limit Value) Substance is not listed.			
NIOSH-Ca (National Institute for Occupational Safety and Health)			
Substance is not listed.			
 GHS label elements Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms 			
GHS07			
· Signal word Warning			
 Hazard-determining components of labeling: dl-Citronellol Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / eye protection / face protection. 			
P280Wear protective gloves / eye protection / face protection.P305+P351+P338If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P333+P313If skin irritation or rash occurs: Get medical advice/attention.P337+P313If eye irritation persists: Get medical advice/attention.			
(Continued on page 9)			

(Continued on page 9)



Date of issue: 01/25/2025

(Continuation of page 8)

Trade name: Citronellol Organic

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Product Safety Department · Contact: Product Safety Department productsafety@adv-bio.com Date of previous version 01/10/2023 Date of preparation 01/25/2025 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin irritation 2: Skin corrosion/irritation - Category 2 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - skin 1B: Skin sensitisation - Category 1B