

Date of issue: 01/24/2025

Reviewed on 01/08/2025

1 Identification

· Product identifier

- Trade name: Linalool ex ho oil natural
- · CAS Number:
- 78-70-6
- Other means of identification
- · Product number: 1167
- · EC number: 201-134-4
- · Index number: 603-235-00-2
- · Application of the substance / the mixture Flavoring Ingredients

· Details of the supplier of the safety data sheet

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Advanced Biotech product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Advanced Biotech product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Advanced Biotech product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

- · Manufacturer/Supplier: Advanced Biotech 10 Taft Road Totowa, NJ 07512 USA
- · Information department: Product Safety Department productsafety@adv-bio.com
- · Emergency telephone number: Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International) Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

2 Hazard(s) identification

Classification of the substance or mixture



Skin irritation 2 H315 Causes skin irritation. Eye irritation 2A

H319 Causes serious eye irritation.

Sensitization - skin 1B H317 May cause an allergic skin reaction.

- Flammable liquids 4 H227 Combustible liquid.

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).

(Continued on page 2)

US



Date of issue: 01/24/2025

Reviewed on 01/08/2025

Trade name: Linalool ex ho oil natural (Continuation of page 1) · Hazard pictograms GHS07 Signal word Warning · Hazard-determining components of labeling: Linalool Hazard statements H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves / eye protection / face protection. P280 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. Store in a well-ventilated place. P403 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Information pertaining to particular dangers for man and environment: Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 2Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 2 Fire = 2Reactivity = 0 REACTIVITY 0 · Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. Classification according to (d)(1)(ii) of § 1910.1200 The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products. · Hazards not otherwise classified There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

(Continued on page 3)

US



Date of issue: 01/24/2025

Reviewed on 01/08/2025

Trade name: Linalool ex ho oil natural

(Continuation of page 2)

3 Composition/information on ingredients

· Chemical characterization: Substances

CAS No. Description

CAS: 78-70-6 Linalool

- · Identification number(s) · EC number: 201-134-4
- · Index number: 603-235-00-2

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, 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.

Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

(Continued on page 4)

US



Date of issue: 01/24/2025

Reviewed on 01/08/2025

Trade name: Linalool ex ho oil natural

(Continuation of page 3)

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.

7 Handling and storage

- Precautions for safe handling No special precautions are necessary if used correctly.
 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: Not required.
- · 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)

JS



Date of issue: 01/24/2025

Reviewed on 01/08/2025

Trade name: Linalool ex ho oil natural (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: 154.25 g/mol · Physical state Liquid · Color: According to product specification · Odor: According to product specification · Odor threshold: Not determined. · Melting point/Melting range: Undetermined. 194-197,960 °C (381.2-388.360 °F) · Boiling point/Boiling range: · Flammability: Not applicable. · Explosion limits: · Lower: Not determined. · Upper: Not determined. · Flash point: 77 °C (170.6 °F) · Decomposition temperature: Not determined. Not determined. · pH-value: 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): 0.861 g/cm³ (7.18505 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: Not determined. 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: 01/24/2025

Reviewed on 01/08/2025

Trade name: Linalool ex ho oil natural

(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.

CAC. 7	
CAS: /	8-70-6 Linalool
Oral	LD50 2,790 mg/kg (ATE)
Dermal	2,790 mg/kg (rat) LD50 5,610 mg/kg (rabbit)
	y irritant effect:
	skin: No irritant effect.
	eye: Irritating effect.
	zation: No sensitizing effects known.
	nal toxicological information:
Interac	tive effects No interactive effects between components are known.
	tive effects No interactive effects between components are known.
Carcine	
Carcino IARC (I	ogenic categories
Carcino IARC (I Substar	ogenic categories nternational Agency for Research on Cancer)
Carcino IARC (I Substar NTP (N	ogenic categories nternational Agency for Research on Cancer) nce is not listed.
Carcine IARC (I Substan NTP (N Substan	ogenic categories nternational Agency for Research on Cancer) nce is not listed. ational Toxicology Program)
Carcino IARC (I Substan NTP (N Substan OSHA-	ogenic categories nternational Agency for Research on Cancer) nce is not listed. ational Toxicology Program) nce is not listed.
Carcino IARC (I Substan NTP (N Substan OSHA-	ogenic categories nternational Agency for Research on Cancer) nce is not listed. ational Toxicology Program) nce is not listed. Ca (Occupational Safety & Health Administration)

- · 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)



Date of issue: 01/24/2025

Reviewed on 01/08/2025

Trade name: Linalool ex ho oil natural

(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.

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:	No
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	x 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: 01/24/2025

Reviewed on 01/08/2025

	(Continuation of page 7)
TSCA (Toxic Su	bstances Control Act):
ACTIVE	
Hazardous Air I	Pollutants
Substance is not	listed.
Proposition 65	
Chemicals know	vn to cause cancer:
Substance is not	listed.
Chemicals know	vn to cause reproductive toxicity for females:
Substance is not	listed.
Chemicals know	vn to cause reproductive toxicity for males:
Substance is not	listed.
Chemicals know	vn to cause developmental toxicity:
Substance is not	
Carcinogenic c	
	ental Protection Agency)
Substance is not	
TLV (Threshold	
Substance is not	
	onal Institute for Occupational Safety and Health)
Substance is not	
GHS label elem	
symbol on a whi	abel shall be in the shape of a square set at a point and shall include a black hazard e background with a red frame sufficiently wide to be clearly visible. s classified and labeled according to the Globally Harmonized System (GHS). Ims
GHS07	
01007	
Signal word Wa	Irning
	ning components of labeling:
Linalool Hazard stateme	nts
H227 Combustik	
H315 Causes sk	in irritation.
	rious eye irritation.
H317 May cause Precautionary s	an allergic skin reaction. tatements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
P280	Wear protective gloves / eye protection / face protection. 88 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
1 303 - 531 - 63	present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

(Continued on page 9)



Date of issue: 01/24/2025

Reviewed on 01/08/2025

Trade name: Linalool ex ho oil natural

P403 P501 · Chemical sa	(Continuation of page 8) Store in a well-ventilated place. Dispose of contents/container in accordance with local/regional/national/international regulations. afety assessment: A Chemical Safety Assessment has not been carried out.
16 Other info	ormation
This informa	ation is based on our present knowledge. However, this shall not constitute a guarantee for product features and shall not establish a legally valid contractual relationship.
· Department · Contact:	: issuing SDS: Product Safety Department
Product Safe	ety Department
	y@adv-bio.com
	vious version 01/10/2023 paration 01/24/2025
	ns and acronyms:
ADR: Accord re	elatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
	arriage of Dangerous Goods by Road) onal Maritime Code for Dangerous Goods
DOT: US Depa	rtment of Transportation
	onal Air Transport Association bean Inventory of Existing Commercial Chemical Substances
CAS: Chemical	Abstracts Service (division of the American Chemical Society)
	I Fire Protection Association (USA) us Materials Identification System (USA)
	Organic Compounds (USA, EU)
LD50: Lethal do	ose, 50 percent
	t, Bioaccumulative and Toxic sistent and very Bioaccumulative
NIOSH: Nationa	al Institute for Occupational Safety
OSHA: Occupa TLV: Threshold	tional Safety & Health
PEL: Permissib	le Exposure Limit
	ended Exposure Limit ids 4: Flammable liquids – Category 4
Skin irritation 2	Skin corrosion/irritation – Category 2
	A: Serious eye damage/eye irritation – Category 2A skin 1B: Skin sensitisation – Category 1B
	US
Y	
- V	