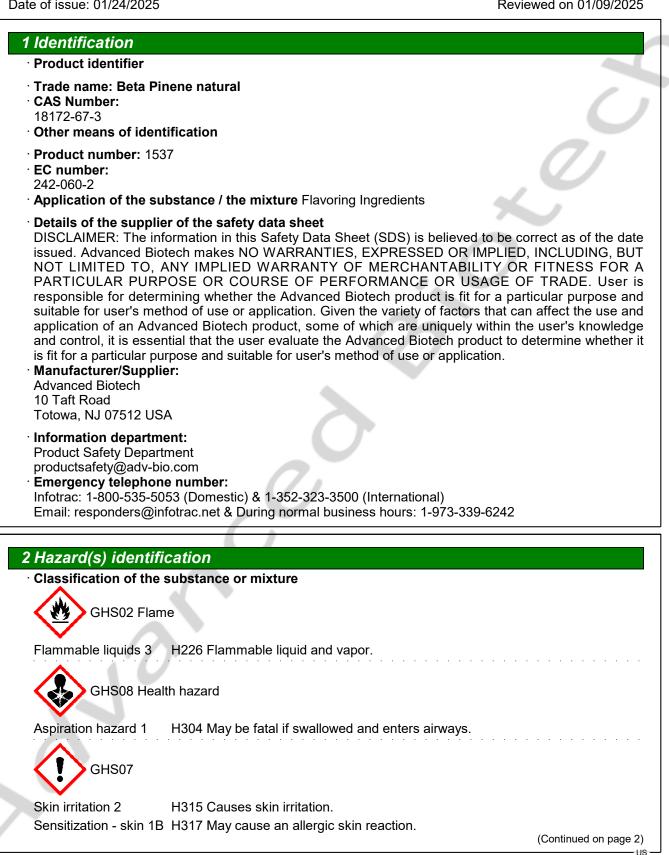


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	(Continuation of page 1)
	<b>nents</b> label shall be in the shape of a square set at a point and shall include a black hazard
	nite background with a red frame sufficiently wide to be clearly visible. is classified and labeled according to the Globally Harmonized System (GHS).
GHS02 GHS	07 GHS08
Signal word D	anger
Hazard-detern Beta-Pinene	nining components of labeling:
Hazard statem	ients
H226 Flammab	ble liquid and vapor.
H315 Causes s	
	se an allergic skin reaction.
Precautionary	atal if swallowed and enters airways.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P303+P361+P	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
P362+P364	water [or shower]. Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	ertaining to particular dangers for man and environment:
Classification NFPA ratings	system: (scale 0 - 4)
	ealth = 1 re = 3
	eactivity = 0
HMIS-ratings (	(scale 0 - 4)
HEALTH 1	Health = 1
	Fire = 3
	Reactivity = 0
Other hazards	
	T and vPvB assessment
PBT: Not appli vPvB: Not app	
	according to (d)(1)(ii) of § 1910.1200
The SDS issu	er does not object to the classifications provided by importers or manufacturers of
precursor prod	
	(Continued on page 3)



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· 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.

## 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 18172-67-3 Beta-Pinene
- Identification number(s)
- **EC number:** 242-060-2

## 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.
- 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. For safety reasons unsuitable extinguishing agents: Water with full jet
- 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** Wear protective equipment. Keep unprotected persons away.
- · 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.

(Continued on page 4)

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· Protective	Action	Criteria	for	Chemicals
1 101001100	ACTION	Onterna	101	Onenneais

· 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.

## 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: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

· 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.

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

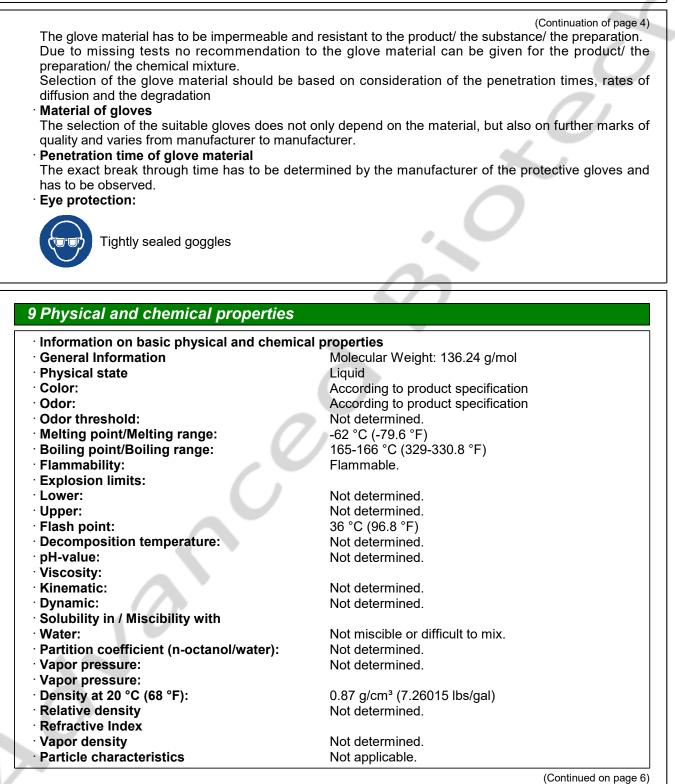
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	(Continuation of page 5)
· Other information	
· Appearance:	
Form:	Liquid
<ul> <li>Important information on protection of h and environment, and on safety.</li> </ul>	nealth
Ignition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
<ul> <li>Change in condition</li> </ul>	
· Evaporation rate	Not determined.

## 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.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories

## · IARC (International Agency for Research on Cancer)

Substance is not listed.

#### NTP (National Toxicology Program)

Substance is not listed.

## · OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

## · Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

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# 12 Ecological information

- · Toxicity
- · 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.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): 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.

· UN-Number · DOT, IMDG, IATA	UN2319
· UN proper shipping name · DOT · IMDG, IATA	Terpene hydrocarbons, n.o.s. (Beta-Pinene) TERPENE HYDROCARBONS, N.O.S. (Beta-Pinene
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
	3



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IMDG	$\mathcal{O}$
Class Label	3 Flammable liquids 3
	.0
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	ш
Environmental hazards: Marine pollutant:	No Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	/
DOT Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Special precautions for user Hazard identification number (Kemler code EMS Number: Stowage Category	Warning: Flammable liquids ): 30 F-E,S-D A
UN "Model Regulation":	UN 2319 TERPENE HYDROCARBONS, N.O.S (BETA-PINENE), 3, III, ENVIRONMENTALL HAZARDOUS



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# 15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara · Section 355 (extremely hazardous substances): Substance is not listed. · Section 313 (Specific toxic chemical listings): Substance is not listed. · 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 GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: **Beta-Pinene** Hazard statements H226 Flammable liquid and vapor. H315 Causes skin irritation.



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H317 May cause	an allergic skin reaction.		
H304 May be fata	I if swallowed and enters airways.		
Precautionary st	atements		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P301+P310	If swallowed: Immediately call a poison center/doctor.		
P321	Specific treatment (see on this label).		
P331	Do NOT induce vomiting.		
P303+P361+P35	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Chamical asfaty apparaments A Chamical Cafety Assassment has not been serviced suit			

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 12/05/2023
- Date of preparation 01/24/2025

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) 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** Flammable liquids 3: Flammable liquids - Category 3 Skin irritation 2: Skin corrosion/irritation - Category 2 Sensitization - skin 1B: Skin sensitisation - Category 1B Aspiration hazard 1: Aspiration hazard - Category 1