

Printing date 10/22/2024

Reviewed on 10/22/2024

## 1 Identification

- · Product identifier
- <sup>•</sup> Trade name: Myrcene 50% D'Limonene Natural
- Product number: 1957
- · CAS Number: 123-35-3
- · EC number: 204-622-5
- · 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 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

GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

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

### 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 product is classified and labeled according to the Globally Harmonized System (GHS).

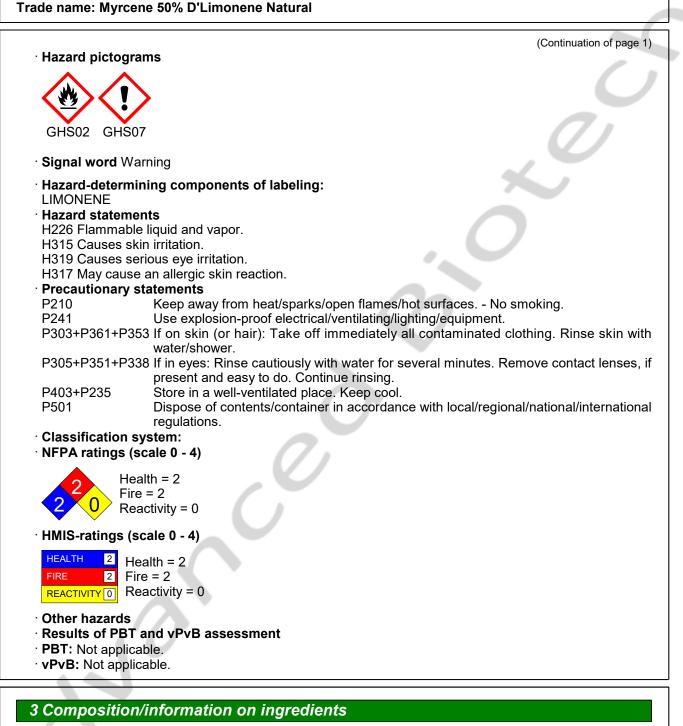
(Continued on page 2)

US



Printing date 10/22/2024

Reviewed on 10/22/2024



- CAS No. Description
- CAS: 123-35-3 Myrcene
- EC number: 204-622-5
- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

(Continued on page 3)

119



Printing date 10/22/2024

#### Reviewed on 10/22/2024

#### Trade name: Myrcene 50% D'Limonene Natural

	(Continuation	on of page 2)
· Dangerous compor	nents:	
CAS: 123-35-3 EINECS: 204-622-5	Myrcene Flammable Liquids 3, H226;  Skin Irritation 2, H315; Eye Irritation 2A, H319	25-50%
CAS: 5989-27-5 EINECS: 227-813-5	LIMONENE Flammable Liquids 3, H226;  Kin Irritation 2, H315; Sensitization - Skin 1B, H317	25-50%

### 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.

### · After inhalation:

Supply fresh air and be sure to call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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.
- Information for 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.
- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Continued on page 4)

US



Printing date 10/22/2024

#### Reviewed on 10/22/2024

Trade name: Myrcene 50% D'Limonene Natural		
See Section 13 for disposal information. • <b>Protective Action Criteria for Chemicals</b>	(Continuation of page 3)	
· PAC-1:		
CAS: 5989-27-5 LIMONENE	15 ppm	
PAC-2:		
CAS: 5989-27-5 LIMONENE	67 ppm	
PAC-3:		
CAS: 5989-27-5 LIMONENE	170 ppm	

### 7 Handling and storage

- · Handling:
- **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

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as a basis.
- Exposure controls
- · 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.

(Continued on page 5)

US -



Printing date 10/22/2024

#### Trade name: Myrcene 50% D'Limonene Natural

(Continuation of page 4)

## · 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · 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. • Eye protection: Tightly sealed goggles 9 Physical and chemical properties · Information on basic physical and chemical properties **General Information** Molecular Weight: 136.24 g/mol · Appearance: Form: Liquid Color: According to product specification According to product specification Odor:

· Odor threshold:	Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 167 °C (332.6 °F)
· Flash point:	47.9 °C (118.2 °F)
· Flammability:	Flammable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits: Lower:	Not determined.
	(Continued on page 6



Printing date 10/22/2024

#### Reviewed on 10/22/2024

#### Trade name: Myrcene 50% D'Limonene Natural

	(Continuation of page 5
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	0.81-0.83 g/cm³ (6.75945-6.92635 lbs/gal)
Specific Gravity	0.785 – 0.810 @ 20 °C (33.4 – 33.5 @ 68 °F)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wa	ater): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	50.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Other information	No further relevant information available.

## 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:
- · LD/LC50 values that are relevant for classification:

#### CAS: 5989-27-5 LIMONENE

Oral LD50 4,400 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

(Continued on page 7)

2B

3



## Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 10/22/2024

### Reviewed on 10/22/2024

(Continuation of page 6)

#### Trade name: Myrcene 50% D'Limonene Natural

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 123-35-3 Myrcene

CAS: 5989-27-5 LIMONENE

### · NTP (National Toxicology Program)

None of the ingredients is listed.

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

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · 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.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 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	Terpene hydrocarbons, n.o.s. (Myrcene, Dipentene)
·IMDG	TERPENE HYDROCARBONS, N.O.S. (Myrcene
	DIPENTENE), MARINE POLLUTANT



Printing date 10/22/2024

Reviewed on 10/22/2024

#### Trade name: Myrcene 50% D'Limonene Natural (Continuation of page 7) ·IATA TERPENE HYDROCARBONS, N.O.S. (Myrcene, DIPENTENE) · Transport hazard class(es) · DOT Class **3 Flammable liquids** · Label 3 · IMDG · Class **3 Flammable liquids** · Label 3 ·IATA · Class **3** Flammable liquids · Label 3 · Packing group DOT, IMDG, IATA Ш · Environmental hazards: Product contains environmentally hazardous substances: LIMONENE • Marine pollutant: No Yes (DOT) Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-D Stowage Category А · 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 · Remarks: Special marking with the symbol (fish and tree).

(Continued on page 9) US



Printing date 10/22/2024

Reviewed on 10/22/2024

#### Trade name: Myrcene 50% D'Limonene Natural

	(Continuation of page 8)
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2319 TERPENE HYDROCARBONS, N.O.S. (MYRCENE, DIPENTENE), 3, 111, ENVIRONMENTALLY HAZARDOUS

5 Regulatory information	
$^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substanc $^{\cdot}$ Sara	e or mixture:
· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 123-35-3 Myrcene	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	

None of the ingredients is 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 product is classified and labeled according to the Globally Harmonized System (GHS).

(Continued on page 10)

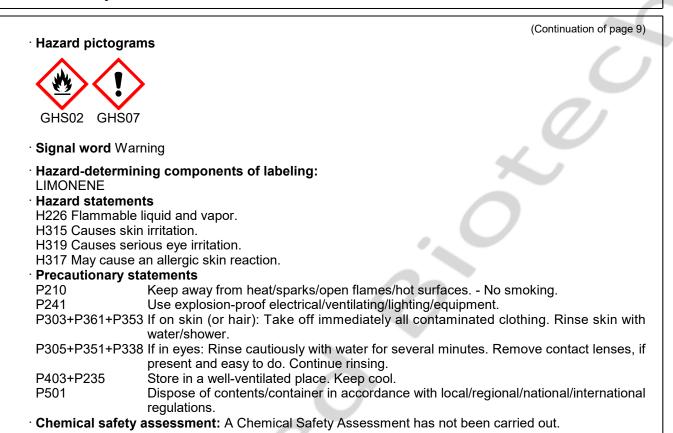
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# Printing date 10/22/2024

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### Trade name: Myrcene 50% D'Limonene Natural



Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

## 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.

**Relevant phrases** 

H226 Flammable liquid and vapor.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- · Department issuing SDS: Product Safety Department
- Contact:

Product Safety Department productsafety@adv-bio.com

- Date of preparation / last revision 10/22/2024 / -
- 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
   ELINCS: European List of Notified 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

(Continued on page 11)



Printing date 10/22/2024

Reviewed on 10/22/2024

(Continuation of page 10)

#### Trade name: Myrcene 50% D'Limonene Natural

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 Flammable Liquids 3: Flammable liquids – Category 3 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1B: Skin sensitisation – Category 1B