

Date of issue: 01/25/2025

#### Reviewed on 01/25/2025

## 1 Identification

#### · Product identifier

- · Trade name: Lemon Type Terpeneless Natural
- · Other means of identification
- Product number: 6099
- · Application of the substance / the mixture Flavoring Ingredients

#### · Details of the supplier of the safety data sheet

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- 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

GHS08 Health hazard

Aspiration hazard 1 H304 May be fatal if swallowed and enters airways.

# GHS07

Skin irritation 2 H315 Causes skin irritation. Sensitization - skin 1 H317 May cause an allergic skin reaction.

Flammable liquids 4 H227 Combustible liquid.

#### **GHS** label elements

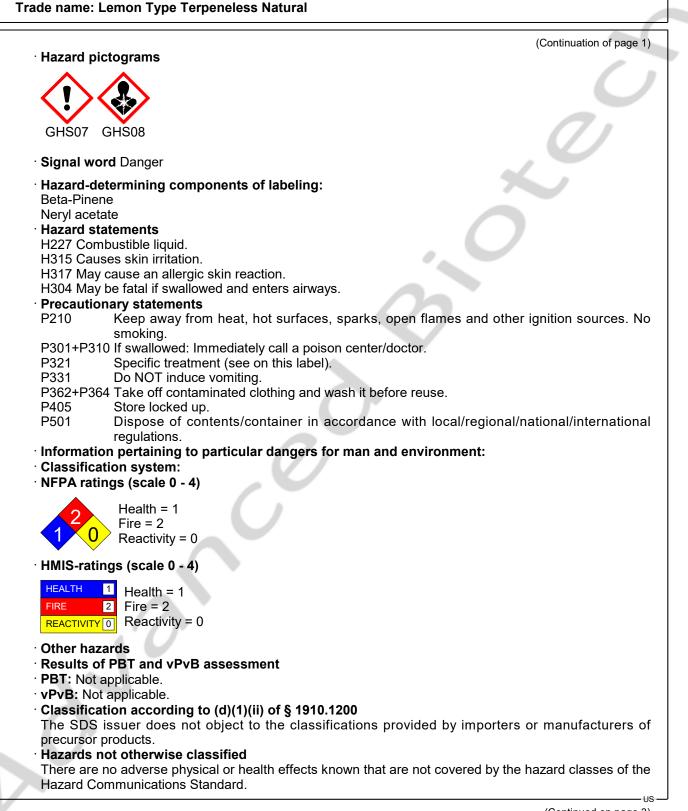
Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The product is classified and labeled according to the Globally Harmonized System (GHS).

(Continued on page 2)



Date of issue: 01/25/2025

Reviewed on 01/25/2025





Date of issue: 01/25/2025

#### Reviewed on 01/25/2025

#### Trade name: Lemon Type Terpeneless Natural

(Continuation of page 2)

Chemical character Description: Mixture	<b>ization: Mixtures</b> e of the substances listed below with nonhazardous additions.	
Dangerous compor	nents:	
	1,1-Dimethoxy-3,7-dimethyl-2,6-octadiene Flammable liquids 4, H227	50-100%
	Neryl acetate ♦ Sensitization - skin 1, H317	10-25%
	Beta-Pinene Seta-Pinene Flammable liquids 3, H226; Sepiration hazard 1, H304; Skin irritation 2, H315; Sensitization - skin 1, H317	10-25%

## 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.
- · 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:
- Dilute with plenty of water.
- 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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15 ppm

67 ppm

170 ppm



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

Date of issue: 01/25/2025

Reviewed on 01/25/2025

(Continuation of page 3)

#### Trade name: Lemon Type Terpeneless Natural

#### • Protective Action Criteria for Chemicals

· PAC-1:

CAS: 5989-27-5 Limonene

· PAC-2:

CAS: 5989-27-5 Limonene

· PAC-3:

CAS: 5989-27-5 Limonene

#### 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: 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:

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
- 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

(Continued on page 5)



Date of issue: 01/25/2025

Reviewed on 01/25/2025

## Trade name: Lemon Type Terpeneless Natural

<ul> <li>Due to missing tests no recommendation preparation/ the chemical mixture.</li> <li>Selection of the glove material should be b diffusion and the degradation</li> <li>Material of gloves</li> <li>The selection of the suitable gloves does not quality and varies from manufacturer to m substances, the resistance of the glove material be checked prior to the application.</li> <li>Penetration time of glove material</li> </ul>	(Continuation of page 4) ad resistant to the product/ the substance/ the preparation. to the glove material can be given for the product/ the ased on consideration of the penetration times, rates of a only depend on the material, but also on further marks of anufacturer. As the product is a preparation of several erial can not be calculated in advance and has therefore to ermined by the manufacturer of the protective gloves and ng refilling.
9 Physical and chemical properties	
· Information on basic physical and chemic	al properties
· General Information	
<ul> <li>Physical state</li> </ul>	Liquid
· Color:	According to product specification
· Odor:	According to product specification
· Odor threshold:	Not determined.
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flammability:	Not applicable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	83 °C (181.4 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	Not determined.
· Kinematic:	Not determined.
· Dynamic:	Not determined.
Solubility in / Miscibility with	
· Water:	Dorthy polyblo
	Partly soluble.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not determined.
· Vapor pressure:	
Density at 20 °C (68 °F):	0.938 g/cm³ (7.82761 lbs/gal)
Relative density	Not determined.
Refractive Index	
Vapor density	Not determined.
<ul> <li>Particle characteristics</li> </ul>	Not applicable.
• Other information	
· Appearance:	
	Liquid
· Form:	



Date of issue: 01/25/2025

#### Reviewed on 01/25/2025

#### Trade name: Lemon Type Terpeneless Natural

		(Continuation of page 5)
<ul> <li>Important information on protection o and environment, and on safety.</li> </ul>	f health	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
· Solvent content:		
· Organic solvents:	0.5 %	
· VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
· Solids content:	9.5 %	
· Change in condition		
· 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: Sensitization possible through skin contact.
- Additional toxicological information:

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

Irritant

· Interactive effects No interactive effects between components are known.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- 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.

#### Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

(Continued on page 7)

3



Date of issue: 01/25/2025

#### Reviewed on 01/25/2025

#### Trade name: Lemon Type Terpeneless Natural

(Continuation of page 6)

### 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT	Net Pogulated
	Not Regulated UN3082
· UN proper shipping name	
· DOT	Not Regulated
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Beta-Pinene, DIPENTENE), MARI POLLUTANT
ΙΑΤΑ	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Beta-Pinene)
Transport hazard class(es)	
DOT	
· Class	Not Regulated



Date of issue: 01/25/2025

Reviewed on 01/25/2025

## Trade name: Lemon Type Terpeneless Natural

	(Continuation of page 7
	$\mathcal{C}$
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group DOT IMDG, IATA	Not Regulated
Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
· 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	Warning: Miscellaneous dangerous substances and articles
<ul> <li>Hazard identification number (Kemler code</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	e): 90 F-A,S-F A
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-PINENE), 9, III

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
Sara

- · 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.

(Continued on page 9)

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Date of issue: 01/25/2025

#### Reviewed on 01/25/2025

#### Tornonoloss Natural Trade name: Lemon Ty

rade name: Lemon Type Terpeneless Natural
(Continuation of page 8)
Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
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.
<ul> <li>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).     </li> <li>Hazard pictograms</li> </ul>





- · Signal word Danger
- · Hazard-determining components of labeling:
- Beta-Pinene
- Neryl acetate
- Hazard statements
- H227 Combustible liquid.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H304 May be fatal if swallowed and enters airways.
- Precautionary statements
- 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.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international P501 regulations.

(Continued on page 10)

US



Date of issue: 01/25/2025

#### Reviewed on 01/25/2025

#### Trade name: Lemon Type Terpeneless Natural

(Continuation of page 9)

· 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. **Relevant phrases** H226 Flammable liquid and vapor. H227 Combustible liquid. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. · Department issuing SDS: Product Safety Department · Contact: Product Safety Department productsafety@adv-bio.com Date of previous version 01/17/2024 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 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) 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 Flammable liquids 4: Flammable liquids - Category 4 Skin irritation 2: Skin corrosion/irritation - Category 2 Sensitization - skin 1: Skin sensitisation – Category 1 Aspiration hazard 1: Aspiration hazard – Category 1