

Date of issue: 01/24/2025

Reviewed on 01/09/2025

1 Identification         • Product identifier         • Trade name: Carvacrol natural         • CAS Number:         499-75-2	
<ul> <li>Product identifier</li> <li>Trade name: Carvacrol natural</li> <li>CAS Number: 499-75-2</li> </ul>	
Trade name: Carvacrol natural CAS Number: 499-75-2	
• CAS Number: 499-75-2	
<ul> <li>Other means of identification</li> </ul>	$\mathcal{O}$
<ul> <li>Product number: 1554</li> <li>EC number: 207-889-6</li> </ul>	, O
· Application of the substance / the mixture Flavoring Ingredients	
<ul> <li>Details of the supplier of the safety data sheet</li> <li>DISCLAIMER: The information in this Safety Data Sheet (SDS) is beli issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED</li> <li>NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANT</li> <li>PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OF</li> <li>responsible for determining whether the Advanced Biotech product i suitable for user's method of use or application. Given the variety of fa application of an Advanced Biotech product, some of which are uniq and control, it is essential that the user evaluate the Advanced Biotec is fit for a particular purpose and suitable for user's method of use or application.</li> <li>Manufacturer/Supplier:</li> <li>Advanced Biotech</li> <li>Taft Road</li> <li>Totowa, NJ 07512 USA</li> </ul>	OR IMPLIED, INCLUDING, BUT ABILITY OR FITNESS FOR A R USAGE OF TRADE. User is is fit for a particular purpose and actors that can affect the use and uely within the user's knowledge h product to determine whether it
<ul> <li>Information department: Product Safety Department productsafety@adv-bio.com</li> <li>Emergency telephone number: Infotrac: 1-800-535-5053 (Domestic) &amp; 1-352-323-3500 (International) Email: responders@infotrac.net &amp; During normal business hours: 1-97</li> </ul>	
2 Hazard(s) identification	
· Classification of the substance or mixture	
GHS07	
Acute toxicity - oral 4 H302 Harmful if swallowed.	
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.	
<ul> <li>GHS label elements</li> <li>Pictograms on label shall be in the shape of a square set at a point symbol on a white background with a red frame sufficiently wide to be of The substance is classified and labeled according to the Globally Harm</li> </ul>	clearly visible.



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### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description CAS: 499-75-2 Carvacrol
- · Identification number(s)
- EC number: 207-889-6

#### 4 First-aid measures

#### · Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
   Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- · 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: Immediately call a 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. Use fire fighting measures that suit the environment.

· 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.

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#### · 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: 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. (Continued on page 5)

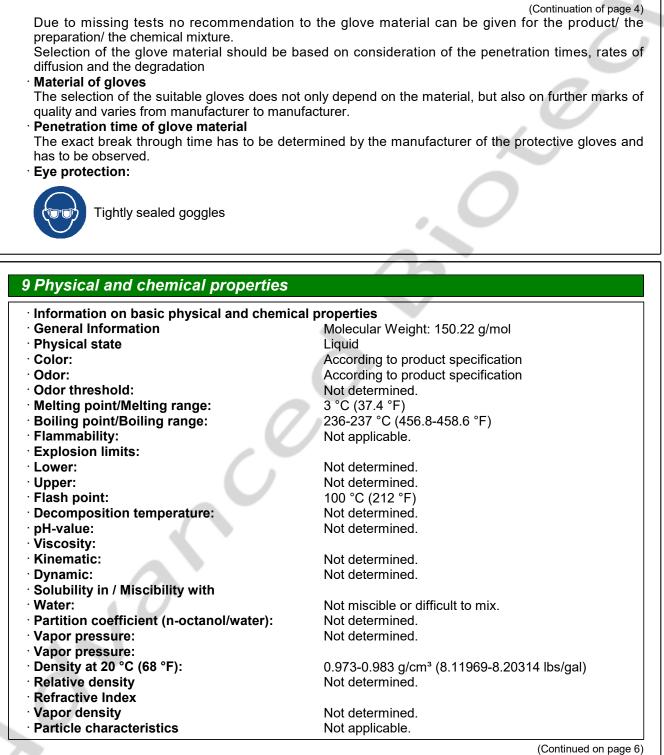
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• Other information	
Appearance:	
Form:	Liquid
<ul> <li>Important information on protection of and environment, and on safety.</li> </ul>	of health
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Change in condition	
· Evaporation rate	Not determined.

### 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:

ATE (Acute Toxicity Estimate)

Oral LD50 810 mg/kg (ATE)

#### CAS: 499-75-2 Carvacrol

Oral LD50 810 mg/kg (ATE)

810 mg/kg (rat)

#### Primary irritant effect:

- · on the skin: No irritant effect.
- on the eye: 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.

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

Substance is not listed.

#### · Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

## 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 (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.

UN-Number		
DOT, IMDG, IATA	Not Regulated	
· UN proper shipping name		
DOT, 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	



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<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	I ll 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

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

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Hazard pictog	rams
$\wedge$	
$\mathbf{\nabla}$	
GHS07	
Signal word W	ranning
	nining components of labeling:
Carvacrol	
Hazard statem	
H302 Harmful i	
H315 Causes s	
	erious eye irritation.
	e an allergic skin reaction.
Precautionary	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves / eye protection / face protection.
P301+P312 P330	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
F303+F351+F3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
<u> </u>	ty 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 01/24/2025 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) 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 (Continued on page 10)

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REL: Recommended Exposure Limit Acute toxicity - oral 4: Acute toxicity – Category 4 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