

Date of issue: 01/24/2025

Reviewed on 01/24/2025

## 1 Identification

### · Product identifier

- · Trade name: Triplal synthetic
- · CAS Number:
- 68039-49-6
- · Other means of identification
- · Product number: 2256
- **EC number:** 268-264-1
- · Index number: 605-043-00-4
- · 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

GHS07

Skin irritation 2 H315 Causes skin 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).

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(Continuation of page 1) · Hazard pictograms GHS07 Signal word Warning · Hazard-determining components of labeling: Triplal Hazard statements H227 Combustible liquid. H315 Causes skin 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. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P403 Store in a well-ventilated place. 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 = 1 Fire = 2Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 2 FIRE 2 REACTIVITY 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. US

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### 3 Composition/information on ingredients

· Chemical characterization: Substances

• CAS No. Description CAS: 68039-49-6 Triplal

· Identification number(s)

- EC number: 268-264-1
- · Index number: 605-043-00-4

### 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.
- 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.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

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

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· 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: None.
- 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: 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

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.

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• 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: Goggles recommended during refilling.

Information on basic physical and chemic	al properties
General Information	
Physical state	Liquid
Color:	According to product specification
Odor:	According to product specification
Odor threshold:	Not determined.
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flammability:	Not applicable.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	66 °C (150.8 °F)
Decomposition temperature:	Not determined.
pH-value:	Not determined.
Viscosity:	
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):	0.938 g/cm³ (7.82761 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 he	
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.

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### 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: 68039-49-6 Triplal
- Oral LD50 2,330 mg/kg (ATE)
- 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.

# 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 (Assessment by list): hazardous for water

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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.

UN-Number DOT, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Environmentally hazardous substance, liquid, n.o.
IMDG, IATA	(Triplal) ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Triplal)
Transport hazard class(es)	
DOT	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Class Label	9 Miscellaneous dangerous substances and articles 9
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADK):	Symbol (fish and tree)



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Transport in bulk according to Annex MARPOL73/78 and the IBC Code	I ll of Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
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
Stowage Category	A
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIPLAL), 9, III

### 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.

• 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.

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- TLV (Threshold Limit Value)
- Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health)

## Substance is not listed.

### · GHS label elements

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### Hazard pictograms



GHS07

- · Signal word Warning
- Hazard-determining components of labeling: Triplal
- Hazard statements
- H227 Combustible liquid.
- H315 Causes skin 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.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P403 Store in a well-ventilated place.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · 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 01/16/2024
- Date of preparation 01/24/2025
- Abte of preparation of 724/2023
   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)

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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 REL: Recommended Exposure Limit Flammable liquids 4: Flammable liquids – Category 4 Skin irritation 2: Skin corrosion/irritation – Category 2 Sensitization - skin 1B: Skin sensitisation – Category 1B