

# Safety Data Sheet

acc. to OSHA HCS (29 CFR § 1910.1200)

Date of issue: 01/24/2025

Reviewed on 01/08/2025

## 1 Identification

· **Product identifier**

· **Trade name:** Propyl Butyrate natural

· **CAS Number:**

105-66-8

· **Other means of identification**

· **Product number:** 1231

· **EC number:**

203-320-0

· **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**



GHS02 Flame

Flammable liquids 3 H226 Flammable liquid and vapor.

· **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

· **Signal word** Warning

· **Hazard statements**

H226 Flammable liquid and vapor.

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## Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P403+P235 Store in a well-ventilated place. Keep cool.
- 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 = 0  
Fire = 2  
Reactivity = 0

### HMIS-ratings (scale 0 - 4)



HEALTH 0 Health = 0  
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.

## 3 Composition/information on ingredients

### Chemical characterization: Substances

### CAS No. Description

CAS: 105-66-8 Propyl butyrate

### Identification number(s)

EC number: 203-320-0

## 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.

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- **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.
- **Protective Action Criteria for Chemicals**

### · 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** No special precautions are necessary if used correctly.
- **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.

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- **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:**  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **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.

- **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**

- |                                       |                                    |
|---------------------------------------|------------------------------------|
| · <b>General Information</b>          | Molecular Weight: 130.19 g/mol     |
| · <b>Physical state</b>               | Liquid                             |
| · <b>Color:</b>                       | According to product specification |
| · <b>Odor:</b>                        | According to product specification |
| · <b>Odor threshold:</b>              | Not determined.                    |
| · <b>Melting point/Melting range:</b> | -95 °C (-139 °F)                   |
| · <b>Boiling point/Boiling range:</b> | 143 °C (289.4 °F)                  |

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|                                                                                        |                                                                                            |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| · <b>Flammability:</b>                                                                 | Flammable.                                                                                 |
| · <b>Explosion limits:</b>                                                             |                                                                                            |
| · <b>Lower:</b>                                                                        | Not determined.                                                                            |
| · <b>Upper:</b>                                                                        | Not determined.                                                                            |
| · <b>Flash point:</b>                                                                  | 32.2 °C (90 °F)                                                                            |
| · <b>Decomposition temperature:</b>                                                    | Not determined.                                                                            |
| · <b>pH-value:</b>                                                                     | Not determined.                                                                            |
| · <b>Viscosity:</b>                                                                    |                                                                                            |
| · <b>Kinematic:</b>                                                                    | Not determined.                                                                            |
| · <b>Dynamic:</b>                                                                      | Not determined.                                                                            |
| · <b>Solubility in / Miscibility with</b>                                              |                                                                                            |
| · <b>Water:</b>                                                                        | Not miscible or difficult to mix.                                                          |
| · <b>Partition coefficient (n-octanol/water):</b>                                      | Not determined.                                                                            |
| · <b>Vapor pressure:</b>                                                               | Not determined.                                                                            |
| · <b>Vapor pressure:</b>                                                               |                                                                                            |
| · <b>Density at 20 °C (68 °F):</b>                                                     | 0.875 g/cm <sup>3</sup> (7.30188 lbs/gal)                                                  |
| · <b>Relative density</b>                                                              | Not determined.                                                                            |
| · <b>Refractive Index</b>                                                              |                                                                                            |
| · <b>Vapor density</b>                                                                 | Not determined.                                                                            |
| · <b>Particle characteristics</b>                                                      | Not applicable.                                                                            |
| · <b>Other information</b>                                                             |                                                                                            |
| · <b>Appearance:</b>                                                                   |                                                                                            |
| · <b>Form:</b>                                                                         | Liquid                                                                                     |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                                                                            |
| · <b>Ignition temperature:</b>                                                         | Not determined.                                                                            |
| · <b>Danger of explosion:</b>                                                          | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |
| · <b>VOC content:</b>                                                                  | 0.00 %<br>0.0 g/l / 0.00 lb/gal                                                            |
| · <b>Change in condition</b>                                                           |                                                                                            |
| · <b>Evaporation rate</b>                                                              | 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.

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## 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.

## 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
- 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.

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## 14 Transport information

|                                                                                    |                                                                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| · UN-Number                                                                        | UN3272                                                                                                           |
| · DOT, IMDG, IATA                                                                  |                                                                                                                  |
| · UN proper shipping name                                                          | Esters, n.o.s. (Propyl butyrate)                                                                                 |
| · DOT                                                                              | ESTERS, N.O.S. (Propyl butyrate)                                                                                 |
| · IMDG, IATA                                                                       |                                                                                                                  |
| · Transport hazard class(es)                                                       |                                                                                                                  |
| · DOT                                                                              |                                                                                                                  |
|   |                                                                                                                  |
| · Class                                                                            | 3 Flammable liquids                                                                                              |
| · Label                                                                            | 3                                                                                                                |
| · IMDG, IATA                                                                       |                                                                                                                  |
|  |                                                                                                                  |
| · Class                                                                            | 3 Flammable liquids                                                                                              |
| · Label                                                                            | 3                                                                                                                |
| · Packing group                                                                    | III                                                                                                              |
| · DOT, IMDG, IATA                                                                  |                                                                                                                  |
| · Environmental hazards:                                                           |                                                                                                                  |
| · Marine pollutant:                                                                | No                                                                                                               |
| · 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<br>On cargo aircraft only: 220 L                                                |
| · IMDG                                                                             |                                                                                                                  |
| · Limited quantities (LQ)                                                          | 5L                                                                                                               |
| · Excepted quantities (EQ)                                                         | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · Special precautions for user                                                     | Warning: Flammable liquids                                                                                       |
| · Hazard identification number (Kemler code):                                      | 30                                                                                                               |
| · EMS Number:                                                                      | F-E,S-D                                                                                                          |
| · Stowage Category                                                                 | A                                                                                                                |

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· UN "Model Regulation": UN 3272 ESTERS, N.O.S. (PROPYL BUTYRATE), 3, III

## 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

- Signal word Warning

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· **Hazard statements**

H226 Flammable liquid and vapor.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P403+P235 Store in a well-ventilated place. Keep cool.

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** 01/10/2023

· **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)

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

US