

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

Date of issue: 04/17/2025

Reviewed on 04/17/2025

**1 Identification**

- **Product identifier**
- **Trade name: Butter Enhancer Synthetic**
- **Other means of identification**
- **Product number: 2270**
- **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 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 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Specific target organ toxicity (repeated exposure) 2 H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS05 Corrosion

Eye damage 1

H318 Causes serious eye damage.



GHS07

Sensitization - skin 1

H317 May cause an allergic skin reaction.

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· **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).

· **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

2,3-Pentanedione

Acetoin (Liquid)

· **Hazard statements**

H225 Highly flammable liquid and vapor.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Precautionary statements**

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

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Exposure may cause a serious lung disease (called bronchiolitis obliterans). The damage to the lungs can be permanent, severe and can lead to death. Individuals exposed to Acetyl Propionyl who have persistent cough and/or shortness of breath should see a physician immediately and evaluated for lung disease. Employers should provide exposed employees with lung function tests and respiratory health questionnaires before beginning to work with Acetyl Propionyl and at least every six months thereafter. A licensed physician should review the tests to look for decreases in lung function over time.

· **Information pertaining to particular dangers for man and environment:**

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 3

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	*3	Health = *3
FIRE	3	Fire = 3
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: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	Ethanol Flammable liquids 2, H225	50-100%
CAS: 57-55-6 EINECS: 200-338-0	Propylene glycol	10-25%
CAS: 600-14-6 EINECS: 209-984-8	2,3-Pentanedione Flammable liquids 2, H225; Specific target organ toxicity (repeated exposure) 2, H373; Eye damage 1, H318; Skin irritation 2, H315; Sensitization - skin 1, H317	10-25%
CAS: 513-86-0 EINECS: 208-174-1	Acetoin (Liquid) Flammable liquids 3, H226; Eye damage 1, H318	≥1-≤2.5%

**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 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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**  
 No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
 CO<sub>2</sub>, 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**  
 During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **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**  
 Mount respiratory protective device.  
 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).  
 Use neutralizing agent.  
 Dispose contaminated material as waste according to section 13.  
 Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 64-17-5	Ethanol	1,800 ppm
CAS: 57-55-6	Propylene glycol	30 mg/m <sup>3</sup>
CAS: 142-62-1	Caproic Acid (Hexanoic Acid)	2.2 mg/m <sup>3</sup>

· **PAC-2:**

CAS: 64-17-5	Ethanol	3300* ppm
CAS: 57-55-6	Propylene glycol	1,300 mg/m <sup>3</sup>
CAS: 142-62-1	Caproic Acid (Hexanoic Acid)	24 mg/m <sup>3</sup>

· **PAC-3:**

CAS: 64-17-5	Ethanol	15000* ppm
CAS: 57-55-6	Propylene glycol	7,900 mg/m <sup>3</sup>
CAS: 142-62-1	Caproic Acid (Hexanoic Acid)	140 mg/m <sup>3</sup>

· **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.

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**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:**  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.  
 Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Keep receptacle tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.
- **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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
 At this time, the other constituents have no known exposure limits.

<b>CAS: 64-17-5 Ethanol</b>	
PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm A3
<b>CAS: 57-55-6 Propylene glycol</b>	
WEEL	Long-term value: 10 mg/m <sup>3</sup>

- **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.  
 Store protective clothing separately.  
 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.

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· **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**

· **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:**

Highly flammable.

· **Explosion limits:**

· **Lower:**

2.6 Vol %

· **Upper:**

15 Vol %

· **Flash point:**

17 °C (62.6 °F)

· **Auto igniting:**

371 °C (699.8 °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 at 20 °C (68 °F):**

59 hPa (44.3 mm Hg)

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<ul style="list-style-type: none"> <li>· <b>Vapor pressure at 50 °C (122 °F):</b> 280 hPa (210 mm Hg)</li> <li>· <b>Density at 20 °C (68 °F):</b> 0.86-0.89 g/cm<sup>3</sup> (7.1767-7.42705 lbs/gal)</li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Refractive Index</b></li> <li>· <b>Vapor density</b> Not determined.</li> <li>· <b>Particle characteristics</b> Not applicable.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> Liquid</li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Ignition temperature:</b> Product is not selfigniting.</li> <li>· <b>Danger of explosion:</b> Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</li> <li>· <b>Solvent content:</b></li> <li>· <b>Organic solvents:</b> 87.1 %</li> <li>· <b>VOC content:</b> 68.74 %</li> <li>591.2-611.8 g/l / 4.93-5.11 lb/gal</li> <li>· <b>Solids content:</b> 0.0 %</li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>

**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:** Strong irritant with the danger of severe eye injury.
- **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.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 64-17-5	Ethanol	1
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· **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.

**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 (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.  
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.

**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.

**14 Transport information**

· **UN-Number**

· **DOT, IMDG, IATA** UN1197

· **UN proper shipping name**

· **DOT, IATA** Extracts, liquid  
 · **IMDG** EXTRACTS, LIQUID

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· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **Packing group**  
 · **DOT, IMDG, IATA** II

· **Environmental hazards:** Not applicable.

· **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: 5 L  
 On cargo aircraft only: 60 L

· **IMDG**

· **Limited quantities (LQ)** 5L  
 · **Excepted quantities (EQ)** Code: E2  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 500 ml

· **Special precautions for user** Warning: Flammable liquids

· **Hazard identification number (Kemler code):** 33  
 · **EMS Number:** F-E,S-D  
 · **Stowage Category** B

· **UN "Model Regulation":** UN 1197 EXTRACTS, LIQUID, 3, II

**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.

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<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b> None of the ingredients is listed.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b> All components have the value ACTIVE.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Hazardous Air Pollutants</b> None of the ingredients is listed.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Proposition 65</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause cancer:</b> None of the ingredients is listed.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b> None of the ingredients is listed.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for males:</b> None of the ingredients is listed.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b> CAS: 64-17-5   Ethanol</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Carcinogenic categories</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency)</b> None of the ingredients is listed.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>TLV (Threshold Limit Value)</b> CAS: 64-17-5   Ethanol <span style="float: right;">A3</span></li> </ul>
<ul style="list-style-type: none"> <li>· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> None of the ingredients is listed.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>GHS label elements</b> 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> </ul>
<ul style="list-style-type: none"> <li>· <b>Hazard pictograms</b></li> </ul>
   
<p>GHS02   GHS05   GHS07   GHS08</p>
<ul style="list-style-type: none"> <li>· <b>Signal word</b> Danger</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Hazard-determining components of labeling:</b> 2,3-Pentanedione Acetoin (Liquid)</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Hazard statements</b> H225 Highly flammable liquid and vapor. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Precautionary statements</b> P210                      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.                                     No smoking.</li> </ul>

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- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison center/doctor.
- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- 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.

· **Relevant phrases**

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing SDS:** Product Safety Department

· **Contact:**

Product Safety Department  
productsafety@adv-bio.com

· **Date of previous version** 01/24/2025

· **Date of preparation** 04/17/2025

· **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)
- HMS: 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 2: Flammable liquids – Category 2
- Flammable liquids 3: Flammable liquids – Category 3
- Skin irritation 2: Skin corrosion/irritation – Category 2
- Eye damage 1: Serious eye damage/eye irritation – Category 1
- Sensitization - skin 1: Skin sensitisation – Category 1
- Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2