

Date of issue: 01/24/2025

Reviewed on 01/24/2025

# 1 Identification

## · Product identifier

- <sup>•</sup> Trade name: Butter Esters Type (F) Natural
- · CAS Number: 97926-23-3/71990-22-2
- · Other means of identification
- Product number: 1789
- · EINECS Number: 308-239-5
- · 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

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).
- · Hazard pictograms Not Applicable
- · Signal word Warning
- · Hazard statements

H227 Combustible liquid.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

- P403 Store in a well-ventilated place.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Continued on page 2)



Date of issue: 01/24/2025

Reviewed on 01/24/2025

(Continuation of page 1)

## Trade name: Butter Esters Type (F) Natural

- · Information pertaining to particular dangers for man and environment:
- · Classification system:
- NFPA ratings (scale 0 4)

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· HMIS-ratings (scale 0 - 4)



## · 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:

ethyl stearate	10-25%
Proprietary FEMA/GRAS Flavoring Ingredient	≤2.5%
🚸 Flammable liquids 3, H226; 🚸 Eye irritation 2A, H319	
Proprietary GRAS Ingredient	≤2.5%
🚸 Flammable liquids 3, H226; 🚸 Skin irritation 2, H315	
	-

# 4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- 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.

(Continued on page 3)



Date of issue: 01/24/2025

## Trade name: Butter Esters Type (F) Natural

(Continuation of page 2)

## 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.
- 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.

## Protective Action Criteria for Chemicals

	Palmitic acid	0.19 mg/m <sup>3</sup>
	Oleic Acid	220 mg/m <sup>3</sup>
	Proprietary GRAS Ingredient	1,200 ppm
CAS: 57-11-4	Stearic Acid	14 mg/m³
	Caproic acid	2.2 mg/m <sup>3</sup>
	Proprietary FEMA/GRAS Flavoring Ingredient	1.4 ppm
PAC-2:		<u>.</u>
	Palmitic acid	2.1 mg/m <sup>3</sup>
	Oleic Acid	2,400 mg/m <sup>3</sup>
	Proprietary GRAS Ingredient	1,700 ppm
CAS: 57-11-4	Stearic Acid	150 mg/m <sup>3</sup>
	Caproic acid	24 mg/m <sup>3</sup>
	Proprietary FEMA/GRAS Flavoring Ingredient	66 mg/m3
PAC-3:		·
	Palmitic acid	12 mg/m <sup>3</sup>
	Oleic Acid	15,000 mg/m <sup>3</sup>
	Proprietary GRAS Ingredient	10000** ppm
CAS: 57-11-4	Stearic Acid	910 mg/m <sup>3</sup>
	Caproic acid	140 mg/m <sup>3</sup>
	Proprietary FEMA/GRAS Flavoring Ingredient	400 mg/m3
	other sections for information on safe handling.	

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Date of issue: 01/24/2025

## Trade name: Butter Esters Type (F) Natural

(Continuation of page 3)

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: 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

# ethyl stearate

TLV Long-term value: 10\* 3\*\* mg/m<sup>3</sup>

A4; Fraction: \*inhalable \*\*respirable

• 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: 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. 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.

(Continued on page 5)



Date of issue: 01/24/2025

#### Reviewed on 01/24/2025

(Continuation of page 4)

## Trade name: Butter Esters Type (F) Natural

• Eye protection: Goggles recommended during refilling.

Physical and chemical properties	
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:	87.2 °C (189 °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):	0.86-0.88 g/cm³ (7.1767-7.3436 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:	Product is not selfigniting.
Danger of explosion:	Not determined.
Solvent content:	
Organic solvents:	0.5 %
VOC content:	0.45 %
	3.9-4 g/l / 0.03 lb/gal
Change in condition	
Evaporation rate	Not determined.

# 10 Stability and reactivity

· Reactivity No further relevant information available.

(Continued on page 6)

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Date of issue: 01/24/2025

#### Reviewed on 01/24/2025

#### Trade name: Butter Esters Type (F) Natural

(Continuation of page 5)

- · 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: 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)

None of the ingredients is listed.

· 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 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.

(Continued on page 7)



Date of issue: 01/24/2025

## Reviewed on 01/24/2025

## Trade name: Butter Esters Type (F) Natural

(Continuation of page 6)

# 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:	Not applicable.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	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

Safety, h Sara	ealth and environmental regulations/legislation specific for the substance or mixtur
Section	355 (extremely hazardous substances):
None of	the ingredients is listed.
Section	313 (Specific toxic chemical listings):
None of	the ingredients is listed.
TSCA (T	oxic Substances Control Act):
All comp	onents have the value ACTIVE.
Hazardo	us Air Pollutants
None of	the ingredients is listed.



Date of issue: 01/24/2025

## Reviewed on 01/24/2025

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Propositio	s known to cause cancer:
	e ingredients is listed.
	s known to cause reproductive toxicity for females:
	e ingredients is listed.
Chemical	s known to cause reproductive toxicity for males:
None of th	e ingredients is listed.
Chemical	s known to cause developmental toxicity:
None of th	e ingredients is listed.
Carcinoge	enic categories
EPA (Env	ironmental Protection Agency)
None of th	e ingredients is listed.
TLV (Thre	eshold Limit Value)
None of th	e ingredients is listed.
NIOSH-Ca	a (National Institute for Occupational Safety and Health)
None of th	e ingredients is listed.
Pictogram symbol on The produ Hazard pi Signal wo Hazard st H227 Com Precautio P210 P280 P370+P37 P403	<ul> <li>nary statements</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>'8 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>Store in a well-ventilated place.</li> </ul>
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Department issuing SDS: Product Safety Department

Contact:

Product Safety Department

productsafety@adv-bio.com

· Date of previous version 01/10/2023

(Continued on page 9)



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

Date of issue: 01/24/2025

Reviewed on 01/24/2025

#### Trade name: Butter Esters Type (F) Natural

(Continuation of page the of preparation 01/24/2025 bbreviations and acronyms: R: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning emational Carriage of Dangerous Goods by Road) DG: International Maritime Code for Dangerous Goods T: US Department of Transportation A: International Air Transport Association IECS: European Inventory of Existing Commercial Chemical Substances NCS: European List of Notified Chemical Substances S: Chemical Abstracts Service (division of the American Chemical Society) PA: National Fire Protection Association (USA) IIS: Hazardous Materials Identification System (USA) C: Volatile Organic Compounds (USA, EU) T: Persistent, Bioaccumulative and Toxic /B: very Persistent and very Bioaccumulative DSH: National Institute for Occupational Safety HA: Occupational Safety & Health /: Threshold Limit Value L: Permissible Exposure Limit L: Recommended Exposure Limit E: Recommended Exposure Limit	
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mmable liguids 3: Flammable liguids – Category 3	
mmable liquids 4: Flammable liquids – Category 4	
n irritation 2: Skin corrosion/irritation – Category 2	
e irritation 2A: Serious eye damage/eye irritation – Category 2A	
Q	