

Date of issue: 04/17/2025

Reviewed on 04/17/2025

# 1 Identification

## · Product identifier

- · Trade name: Butter Booster WS natural
- · Other means of identification
- · Product number: 1687
- · 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. 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. **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). (Continued on page 2)

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Trade name: Butter Booster WS natural (Continuation of page 1) · Hazard pictograms GHS02 GHS05 GHS08 · Signal word Danger · Hazard-determining components of labeling: Acetoin (Liquid) Acetic acid · Hazard statements H226 Flammable liquid and vapor. H318 Causes serious eye damage. 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. Immediately call a poison center/doctor. P310 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 = 3 Fire = 2Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH \*3 Health = \*3 2 Fire = 2FIRE 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.

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### · 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:
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Dangerous components.		
	Acetoin (Liquid)	50-100%
EINECS: 208-174-1	🚸 Flammable liquids 3, H226; 🚸 Eye damage 1, H318	
	Acetic acid	≤2.5%
EINECS: 200-580-7	🚸 Flammable liquids 3, H226; 🚸 Acute toxicity - dermal 4, H312	

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

### 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

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:

Dilute with plenty of water.

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• Methods and Absorb with lic Use neutralizir Dispose conta Ensure adequa	minated material as waste according to section 13.	
· PAC-1:	~	
CAS: 64-19-7	Acetic acid	5 ppm
· PAC-2:		
CAS: 64-19-7	Acetic acid	35 ppm
· PAC-3:		<b>!</b>
CAS: 64-19-7	Acetic acid	250 ppm
See Section 8	other sections for information on safe handling. for information on personal protection equipment. 8 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: 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:** 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:

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

At this time, the remaining constituent has no known exposure limits.

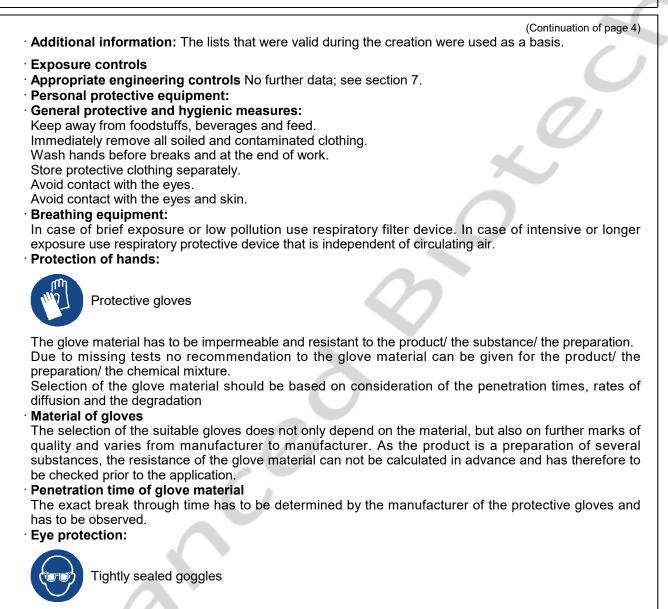
(	CAS:	64-19-7 Acetic acid
F	PEL	Long-term value: 25 mg/m³, 10 ppm
	REL	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
-		Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
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9 Physical and chemical properties				
· Information on basic physical and chemical properties				
General Information	Molecular Weight: 88.11 g/mol			
<ul> <li>Physical state</li> </ul>	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:	Flammable.			
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Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	45 °C (113 °F)
Decomposition temperature:	Not determined.
pH-value:	Not determined.
Viscosity:	
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not determined.
Vapor pressure:	
Density at 20 °C (68 °F):	1-1.025 g/cm³ (8.345-8.55363 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 hea	alth
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of
	explosive air/vapor mixtures are possible.
Solvent content:	
Organic solvents:	1.0 %
VOC content:	1.00 %
	10-10.3 g/l / 0.08-0.09 lb/gal
Solids content:	0.1 %
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.

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	toxicity:
LD/LC	50 values that are relevant for classification:
•	cute Toxicity Estimate)
Derma	LD50 106,000 mg/kg (rabbit)
CAS: 5	13-86-0 Acetoin (Liquid)
Oral	LD50 >50,000 mg/kg (rat)
Derma	LD50 >50,000 mg/kg (rabbit)
	y irritant effect:
	skin: No irritant effect.
	eye: Strong irritant with the danger of severe eye injury.
	ization: No sensitizing effects known.
	onal toxicological information:
	oduct shows the following dangers according to internally approved calculation methods
prepara	ations:
Irritant	
Interac	tive effects No interactive effects between components are known.
	ogenic categories
	International Agency for Research on Cancer)
None o	f the ingredients is listed.
NTP (N	lational Toxicology Program)
None o	f the ingredients is listed.
OSHA-	Ca (Occupational Safety & Health Administration)
None o	f the ingredients is listed.
110110 0	diverse and the second second information
	ative sources for toxicological 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.

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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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information	
· UN-Number · DOT, IMDG, IATA	UN1197
<ul> <li>UN proper shipping name</li> <li>DOT, IATA</li> <li>IMDG</li> </ul>	Extracts, liquid EXTRACTS, LIQUID
· Transport hazard class(es)	
· DOT	
Class	3 Flammable liquids
·Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
·Label	3
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	Ш
· Environmental hazards:	Not applicable.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
• DOT • Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
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·IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler cod	de): 30
EMS Number:	F-E,S-D
· Stowage Category	A
· UN "Model Regulation":	UN 1197 EXTRACTS, LIQUID, 3, III

## 15 Regulatory information

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

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

### · Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

### · TLV (Threshold Limit Value)

None of the ingredients is listed.

## · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is 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 product is classified and labeled according to the Globally Harmonized System (GHS).

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<ul> <li>Hazard pictogram</li> </ul>	ns
GHS02 GHS05	GHS08
· Signal word Dan	ger
· Hazard-determin	ing components of labeling:
Acetoin (Liquid)	
Acetic acid	
<ul> <li>Hazard statemen</li> </ul>	its
H226 Flammable	
H318 Causes seri	
H373 May cause exposure: Ir	damage to the respiratory system through prolonged or repeated exposure. Route of nalation.
Precautionary st	atements
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	B 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.
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

H226 Flammable liquid and vapor.

H312 Harmful in contact with skin.

H318 Causes serious eye damage.

- · 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)

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(Continuation of page 10) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: 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 3: Flammable liquids – Category 3 Acute toxicity - dermal 4: Acute toxicity – Category 4 Eye damage 1: Serious eye damage/eye irritation – Category 1 Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2