

Date of issue: 01/24/2025 Reviewed on 01/24/2025

#### 1 Identification

· Product identifier

· Trade name: Decanal 50% ETOH (B Type) Natural

· CAS Number: 112-31-2 / 64-17-5 · Other means of identification

· Product number: 1645

· EINECS Number: 203-957-4 / 200-578-6

· 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

Keep in a cool place.



GHS02 Flame

Flammable liquids 3 H226 Flammable liquid and vapor.



Eye irritation 2A H319 Causes serious eye irritation.

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

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· Hazard pictograms







GHS02 GHS07

- · Signal word Warning
- · Hazard statements

H226 Flammable liquid and vapor. H319 Causes serious eye irritation.

· 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.

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.

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 = 2 Fire = 2 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 2

<mark>АСТІVІТУ</mark> 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.

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<ul> <li>Dangerous compon</li> </ul>	nents:	
0, 10, 0, 1, 0	Ethanol     Flammable liquids 2, H225	25-50%
0, 101 112 01 2	Decanal  Skin irritation 2, H315; Eye irritation 2A, H319; Flammable liquids 4, H227	25-50%

### 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. If symptoms persist, 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.

### 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

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Dilute with plenty of water.

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:		
1	CAS: 64-17-5	Ethanol	1,800 ppm
	CAS: 112-31-2	Decanal	1.8 ppm
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PAC-2:			
CAS: 64-17-5	Ethanol	3300* ppm	
CAS: 112-31-2	Decanal	120 mg/m3	
· PAC-3:			
CAS: 64-17-5	Ethanol	15000* ppm	
CAS: 112-31-2	Decanal	740 mg/m3	

#### · 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.

- · 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	CAS: 64-17-5 Ethanol		
PEL	Long-term value: 1900 mg/m³, 1000 ppm		
REL	Long-term value: 1900 mg/m³, 1000 ppm		
TLV	Short-term value: 1000 ppm		
	A3		

- · 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

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· 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.

· 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 specificationOdor: According to product specification

Odor threshold:
 Melting point/Melting range:
 Boiling point/Boiling range:
 Flammability:
 Not determined.
 Undetermined.
 Flammable.

**Explosion limits:** 

• **Lower:** 3.5 Vol % • **Upper:** 15 Vol %

Flash point:
 Auto igniting:
 Decomposition temperature:
 pH-value:
 54 °C (129.2 °F)
 200 °C (392 °F)
 Not determined.
 Not determined.

· Viscosity:

Kinematic: Not determined.Dynamic: Not determined.

· Solubility in / Miscibility with

• Water: Fully miscible.
• Partition coefficient (n-octanol/water): Not determined.

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· Vapor pressure at 20 °C (68 °F):

59 hPa (44.3 mm Hg)

· Vapor pressure:

Density at 20 °C (68 °F): 0.845 g/cm³ (7.05153 lbs/gal)

Relative density Not determined.

· Refractive Index

Vapor densityParticle characteristicsNot determined.Not applicable.

· Other information

· Appearance:

· Form: Liquid

· Important information on protection of health

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: 50.0 % · VOC content: 50.00 %

422.5 g/l / 3.53 lb/gal

· 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.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

<ul> <li>LD/LC50 values</li> </ul>	that are relevant fo	r classification:
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#### **CAS: 112-31-2 Decanal**

Oral LD50 3,730 mg/kg (ATE) 3,730 mg/kg (rat)
Dermal LD50 4,173 mg/kg (rabbit)

Primary irritant effect:

on the skin: No irritant effect.
on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

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· 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.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

CAS: 64-17-5 Ethanol

|1

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.

### 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.

### 14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN1170

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· UN proper shipping name

· **DOT** Ethanol solutions

·IMDG ETHANOL SOLUTION (ETHYL ALCOHOL

SOLUTION)

· IATA ETHANOL SOLUTION

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids

· Label 3

· IMDG, IATA



· Class 3 Flammable liquids

· Label 3

· Packing group

· 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

On cargo aircraft only: 220 L

· IMDG

· Limited quantities (LQ) 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 code): 30

EMS Number: F-E,S-D

· Stowage Category A

· UN "Model Regulation": UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL

SOLUTION), 3, III



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### 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.

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:

CAS: 64-17-5 Ethanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 64-17-5 Ethanol

A3

· 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).

Hazard pictograms





GHS02 GHS07

- · Signal word Warning
- Hazard statements

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

· Precautionary statements

P210

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

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

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.

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.

H227 Combustible liquid.

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
- 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

ELINCS: European List of Notified 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)

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 2: Flammable liquids - Category 2

Flammable liquids 3: Flammable liquids - Category 3

Flammable liquids 4: Flammable liquids - Category 4

Skin irritation 2: Skin corrosion/irritation - Category 2

Eye irritation 2A: Serious eye damage/eye irritation - Category 2A