

Printing date 01/16/2024

Reviewed on 01/10/2023

1 Identification

- · Product identifier
- [·] Trade name: Beta Damascenone 1% ETOH natural
- · Product number: 1663
- · CAS Number: 23696-85-7/64-17-5
- · EINECS Number: 245-833-2/200-578-6
- · 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 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



Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

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



(Continued on page 2)



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Hazard-determining components of labeling: Beta Damascenone Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.	Signal word Danger	(Continuation of page 1)
Beta Damascenone Hazard statements 1225 Highly flammable liquid and vapor. 1319 Causes serious eye irritation. 1317 May cause an allergic skin reaction. Precautionary statements 2210 Keep away from heat/sparks/open flames/hot surfaces No smoking. 2241 Use explosion-proof electrical/ventilating/lighting/equipment. 2303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 2305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 2403+P235 Store in a well-ventilated place. Keep cool. 2501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) VFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 MIS-ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 Other hazards Reactivity = 0 Other hazards Reactivity = 0 Other hazards Reactivity = 0	Hazard-determining components of labeling:	
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PBT: Not applicable.		
/PvB: Not applicable.		
	VPVB: Not applicable.	

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

· Dangerous components:

	Ethanol	50-100%
EINECS: 200-578-6	🚸 Flammable Liquids 2, H225; 🐠 Eye Irritation 2A, H319	
		≥1-≤2.5%
EINECS: 245-833-2	🚸 Skin Irritation 2, H315; Sensitization - Skin 1A, H317	

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air and be sure to call for a doctor.

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(Continuation of page 2) 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 eve contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor · After swallowing: If symptoms persist consult doctor. Information for 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. 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. Protective Action Criteria for Chemicals · PAC-1: CAS: 64-17-5 Ethanol 1,800 ppm · PAC-2: CAS: 64-17-5 Ethanol 3300* ppm · PAC-3: CAS: 64-17-5 Ethanol 15000* ppm (Continued on page 4)



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7 Handling and storage

- · Handling:
- **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.
- · 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

Additional information about design of technical systems: No further data; see section 7.

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: 64-17-5 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

- · 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.

• 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.

· Protection of hands:



Protective gloves

(Continued on page 5)

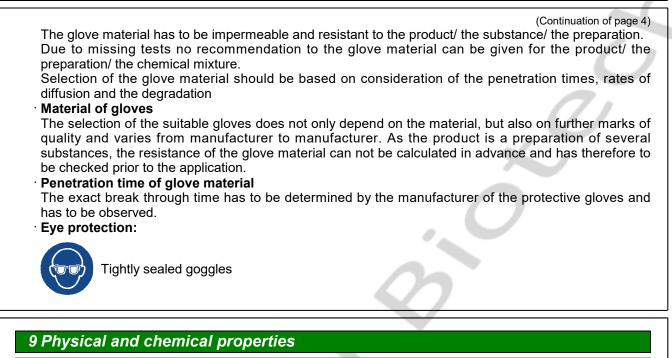
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General Information	Molecular Weight: 46 g/mol
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	According to product specification
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-114.5 °C (-174.1 °F)
Boiling point/Boiling range:	78 °C (172.4 °F)
· Flash point:	16.6 °C (61.9 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	425 °C (797 °F)
Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
· Explosion limits:	
Lower:	3.5 Vol %
Upper:	15 Vol %
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
· Density at 20 °C (68 °F):	0.8-0.83 g/cm³ (6.676-6.92635 lbs/gal)
Specific Gravity	0.800-0.830 @ 20 °C (33.4-33.5 @ 68 °F)

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[·]US



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	(Continuation of	page 5
Relative density	Not determined.	-
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with	A .	
Water at 20 °C (68 °F):	1,000 g/l	
Partition coefficient (n-octanol/	water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	99.0 %	
VOC content:	99.00 %	
	792-821.7 g/l / 6.61-6.86 lb/gal	
Other information	No further relevant information available.	

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:

· LD/LC50 values that are relevant for classification:

CAS: 64-17-5 Ethanol

Oral LD50 7,060 mg/kg (rat)

Inhalative LC50/4 h 20,000 mg/l (rat)

Primary irritant effect:

- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:

İrritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 64-17-5 Ethanol

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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.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- 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.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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.

· UN-Number	
DOT, IMDG, IATA	UN1170
· UN proper shipping name	
DOT	Ethanol solutions
IMDG	ETHANOL SOLUTION (ETHYL ALCOHO
	SOLUTION)
	ETHANOL SOLUTION



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	(Continuation of page 7)
Fransport hazard class(es)	
DOT	
1.000 T	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
	.0
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category	A
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)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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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

· 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



· Signal word Danger

Hazard-determining components of labeling: Beta Damascenone
Hazard statements
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statements
P210
Keep away from heat/sparks/open flames/hot surfaces. - 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/shower.

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	(Continuation of page 9)
P305+P351+P3	338 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- · Department issuing SDS: Product Safety Department
- Contact: Product Safety Department productsafety@adv-bio.com
- Date of preparation / last revision 01/16/2024
- 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, ÉU) 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 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 Sensitization - Skin 1A: Skin sensitisation - Category 1A