

Printing date 01/16/2024

Reviewed on 01/10/2023

1 Identification

- · Product identifier
- Trade name: Vanilla Complex natural
- · Product number: 1046
- · 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 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



· Signal word Danger

(Continued on page 2)



Printing date 01/16/2024

Trade name: Vanilla Complex natural

(Continuation of page 1) · Hazard-determining components of labeling: Piperonal 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. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep cool. P403+P235 Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2 Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2Fire = 3 FIRE 3 Reactivity = 0 REACTIVITY 0 · Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
CAS: 64-17-5 Ethanol 5	50-100%	
EINECS: 200-578-6 🚸 Flammable Liquids 2, H225; 🕩 Eye Irritation 2A, H319		
	2.5-10%	
EINECS: 204-409-7 🚯 Sensitization - Skin 1B, H317		
	2.5-10%	
EINECS: 204-271-8 (1) Acute Toxicity - Oral 4, H302		
	2.5-<10%	
EINECS: 204-465-2 🚯 Eye Irritation 2A, H319		

(Continued on page 3)



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: Vanilla Complex natural

(Continuation of page 2)

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.

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. 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

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	autions, protective equipment and emergency procedures	
	e equipment. Keep unprotected persons away.	
Environmenta		
Dilute with pler		
Do not allow to	enter sewers/ surface or ground water.	
 Methods and 	material for containment and cleaning up:	
Absorb with lig	uid-binding material (sand, diatomite, acid binders, universal binders, sawdu	ust).
	minated material as waste according to section 13.	,
Ensure adequa		
Reference to		
	for information on safe handling.	
	for information on personal protection equipment.	
	B for disposal information.	
	tion Criteria for Chemicals	
PAC-1:		
CAS: 64-17-5	Ethanol	1,800 ppm
PAC-2:		·
CAS: 64-17-5	Ethanol	3300* ppm
	(Cont	tinued on page 4)
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Printing date 01/16/2024

Reviewed on 01/10/2023

(Continuation of page 3)

15000* ppm

Trade name: Vanilla Complex natural

· PAC-3:

CAS: 64-17-5 Ethanol

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 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.

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

CAS: 121-33-5 Vanillin

WEEL Long-term value: 10 mg/m³

· 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.

(Continued on page 5)

US



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: Vanilla Complex natural

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 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		
	ble and resistant to the product/ the substance/ the preparation. ation to the glove material can be given for the product/ the	
	be based on consideration of the penetration times, rates of	
The selection of the suitable gloves doe quality and varies from manufacturer	es not only depend on the material, but also on further marks of to manufacturer. As the product is a preparation of several material can not be calculated in advance and has therefore to	
	e determined by the manufacturer of the protective gloves and	
Tightly sealed goggles		
9 Physical and chemical propert	ies	
 Information on basic physical and ch General Information Appearance: Form: Color: Odor: 	emical properties Liquid According to product specification According to product specification	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 78 °C (172.4 °F)	
· Flash point:	16 °C (60.8 °F)	
· Flammability (solid, gaseous):	Highly flammable.	
· Auto igniting:	425 °C (797 °F)	
• Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
	(Continued on page 6)	

US



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: Vanilla Complex natural

	(Continuation of page 5
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):	0.89 g/cm³ (7.42705 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	80.0 %
VOC content:	80.00 %
	712.0 g/l / 5.94 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:

ATE (Acute Toxicity Estimate)

Oral LD50 28,800 mg/kg (ATE)

CAS: 64-17-5 Ethanol

Oral LD50 7,060 mg/kg (rat)

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

(Continued on page 7)

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

Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: Vanilla Complex natural

(Continuation of page 6)

- Primary irritant effect: • on the skin: No irritant effect.
- on the eve: 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: Irritant

· Carcinogenic categories

- · IARC (International Agency for Research on Cancer)
- CAS: 64-17-5 Ethanol

· 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.

(Continued on page 8)



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: Vanilla Complex natural

(Continuation of page 7)

Transport information	
UN-Number DOT, IMDG, IATA	UN1170
UN proper shipping name DOT IMDG IATA	Ethanol solutions ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION
Transport hazard class(es)	
DOT	
PRAMAREE 1000	0
Class Label	3 Flammable liquids 3
IMDG, IATA	
	0
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	: 33 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) Excepted quantities (EQ)	1L Code: E2
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: Vanilla Complex natural

(Continuation of page 8)

· UN "Model Regulation":

UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

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.

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

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Hazard pictograms



· Signal word Danger

(Continued on page 10)

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Printing date 01/16/2024

Trade name: Vanilla Complex natural

	(Continuation of page 9)
 Hazard-deterr Piperonal 	nining components of labeling:
Hazard staten	nents
H225 Highly fla	ammable liquid and vapor.
	serious eye irritation.
	se an allergic skin reaction.
• Precautionary	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P	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 safe	ety 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.

H302 Harmful if swallowed.

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, 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 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

(Continued on page 11)

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

Printing date 01/16/2024

Reviewed on 01/10/2023

(Continuation of page 10)

Trade name: Vanilla Complex natural

Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1B: Skin sensitisation – Category 1B