

Safety Data Sheet

acc. to OSHA HCS (29 CFR § 1910.1200)



Date of issue: 01/25/2025

Reviewed on 01/25/2025

1 Identification

- **Product identifier**
- **Trade name: Vanilla Extract 10X Replacer Natural**
- **Other means of identification**
- **Product number: 6204**
- **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 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**
- 
 GHS07
 Eye irritation 2A H319 Causes serious eye irritation.
 Sensitization - skin 1 H317 May cause an allergic skin reaction.
 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**
- 
 GHS07
- **Signal word** Warning
- **Hazard-determining components of labeling:**
 Proprietary FEMA/GRAS Flavoring Ingredient

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Hazard statements

- H227 Combustible liquid.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- 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 Store in a well-ventilated place.
- 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)



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:

CAS: 56-81-5 EINECS: 200-289-5	Glycerin	≥25-≤50%
CAS: 64-17-5 EINECS: 200-578-6	Ethanol ⚠ Flammable liquids 2, H225	≥2.5-≤25%

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CAS: 121-33-5 EINECS: 204-465-2	Vanillin ⚠ Eye irritation 2A, H319	≤2.5%
	Proprietary FEMA/GRAS Flavoring Ingredient ⚠ Specific target organ toxicity (repeated exposure) 2, H373; ⚠ Eye damage 1, H318; ⚠ Skin irritation 2, H315; Sensitization - skin 1, H317	≥0.1-<1%

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.
- **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** Not required.
- **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:		
CAS: 56-81-5	Glycerin	45 mg/m ³
CAS: 64-17-5	Ethanol	1,800 ppm

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CAS: 64-17-5	Ethanol	1,800 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	1,200 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	4 ppm
CAS: 124-07-2	Caprylic acid	30 mg/m ³
CAS: 105-37-3	Ethyl propionate	6.3 ppm
CAS: 75-07-0	Acetaldehyde	45 ppm
	α-Furfuraldehyde	2 ppm

· PAC-2:

CAS: 56-81-5	Glycerin	180 mg/m ³
CAS: 64-17-5	Ethanol	3300* ppm
CAS: 64-17-5	Ethanol	3300* ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	1,700 ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	43 mg/m ³
CAS: 124-07-2	Caprylic acid	330 mg/m ³
CAS: 105-37-3	Ethyl propionate	69 ppm
CAS: 75-07-0	Acetaldehyde	270 ppm
	α-Furfuraldehyde	10 ppm

· PAC-3:

CAS: 56-81-5	Glycerin	1,100 mg/m ³
CAS: 64-17-5	Ethanol	15000* ppm
CAS: 64-17-5	Ethanol	15000* ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	10000** ppm
	Proprietary FEMA/GRAS Flavoring Ingredient	260 mg/m ³
CAS: 124-07-2	Caprylic acid	2,000 mg/m ³
CAS: 105-37-3	Ethyl propionate	410 ppm
CAS: 75-07-0	Acetaldehyde	840 ppm
	α-Furfuraldehyde	100 ppm

· 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

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

· 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: Keep receptacle tightly sealed.

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· **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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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

CAS: 56-81-5 Glycerin	
PEL	Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.
CAS: 64-17-5 Ethanol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1000 ppm A3
CAS: 121-33-5 Vanillin	
WEEL	Long-term value: 10 mg/m ³

· **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.

· **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

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.

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· **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 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:	60.3 °C (140.5 °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):	1.15-1.25 g/cm ³ (9.59675-10.43125 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 health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Solvent content:	
· Organic solvents:	47.9-59.5 %

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· Water:	25.7-30.5 %
· VOC content:	9.08-14.08 %
	162-176.1 g/l / 1.35-1.47 lb/gal
· Solids content:	0.0 %
· 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:**
- **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:
 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
CAS: 1401-55-4	Tannic Acid	3
CAS: 64-17-5	Ethanol	1
CAS: 75-07-0	Acetaldehyde	2B
	α-Furfuraldehyde	3

· **NTP (National Toxicology Program)**

CAS: 75-07-0	Acetaldehyde	R
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.		
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· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

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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 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.

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	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 II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· Special precautions for user	Not applicable.

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· **UN "Model Regulation":** Not Regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

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

Proprietary GRAS Ingredient

· **Section 313 (Specific toxic chemical listings):**

Proprietary GRAS Ingredient

CAS: 75-07-0 Acetaldehyde

· **TSCA (Toxic Substances Control Act):**

CAS: 56-81-5	Glycerin	ACTIVE
CAS: 7732-18-5	Deionized Water	ACTIVE
CAS: 64-17-5	Ethanol	ACTIVE
CAS: 1401-55-4	Tannic Acid	ACTIVE
CAS: 121-33-5	Vanillin	ACTIVE
	Distilled Water	ACTIVE
CAS: 64-17-5	Ethanol	ACTIVE
	Proprietary FEMA/GRAS Flavoring Ingredient	ACTIVE
CAS: 7492-70-8	Butyl butyryllactate	ACTIVE
CAS: 97-64-3	Ethyl lactate	ACTIVE
CAS: 8006-87-9	Sandalwood oil	ACTIVE
CAS: 8023-95-8	Immortelle oil	ACTIVE
CAS: 705-86-2	delta-Decalactone	ACTIVE
CAS: 93-51-6	2-Methoxy-4-methylphenol	ACTIVE
	Proprietary GRAS Ingredient	ACTIVE
CAS: 120-57-0	Piperonal	ACTIVE
CAS: 713-95-1	delta-Dodecalactone	ACTIVE
	Proprietary FEMA/GRAS Flavoring Ingredient	ACTIVE
	Proprietary FEMA/GRAS Flavoring Ingredient	ACTIVE
CAS: 104-50-7	gamma-Octalactone	ACTIVE
CAS: 119-84-6	Dihydrocoumarin	ACTIVE
	Proprietary FEMA/GRAS Flavoring Ingredient	ACTIVE
CAS: 3391-86-4	1-Octen-3-ol	ACTIVE
CAS: 124-07-2	Caprylic acid	ACTIVE
	Proprietary FEMA/GRAS Flavoring Ingredient	ACTIVE
CAS: 23147-57-1	Acetoin Powder	ACTIVE
CAS: 105-37-3	Ethyl propionate	ACTIVE
CAS: 28664-35-9	4,5-Dimethyl-3-Hydroxy-2(5H)-furanone	ACTIVE
CAS: 105-54-4	Ethyl butyrate	ACTIVE
CAS: 105-57-7	Acetal	ACTIVE

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· Hazardous Air Pollutants	
	Proprietary GRAS Ingredient
CAS: 75-07-0	Acetaldehyde

· Proposition 65	
· Chemicals known to cause cancer:	
	Proprietary FEMA/GRAS Flavoring Ingredient
CAS: 75-07-0	Acetaldehyde

· 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
CAS: 64-17-5	Ethanol

· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
	Proprietary GRAS Ingredient	C
CAS: 75-07-0	Acetaldehyde	B2

· TLV (Threshold Limit Value)		
CAS: 64-17-5	Ethanol	A3
CAS: 64-17-5	Ethanol	A3
CAS: 75-07-0	Acetaldehyde	A3
	α-Furfuraldehyde	A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)	
CAS: 75-07-0	Acetaldehyde

· 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



GHS07

· Signal word Warning

· Hazard-determining components of labeling:
 Proprietary FEMA/GRAS Flavoring Ingredient

· Hazard statements
 H227 Combustible liquid.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.

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· **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- 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 Store in a well-ventilated place.
- 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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing SDS:** Product Safety Department

· **Contact:**

Product Safety Department
productsafety@adv-bio.com

· **Date of previous version** 01/17/2024

· **Date of preparation** 01/25/2025

· **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)
 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 4: Flammable liquids – Category 4
 Skin irritation 2: Skin corrosion/irritation – Category 2
 Eye damage 1: Serious eye damage/eye irritation – Category 1
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
 Sensitization - skin 1: Skin sensitisation – Category 1
 Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2