

Date of issue: 04/17/2025

Reviewed on 04/17/2025

1 Identification

· Product identifier

- · Trade name: Green Key Natural
- · Other means of identification
- Product number: 1456
- · 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.

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)



Date of issue: 04/17/2025

Reviewed on 04/17/2025

Trade name: Green Key Natural

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	(Continuation of page 1)
 Hazard statem 	
	mmable liquid and vapor.
	erious eye irritation.
· Precautionary	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
F210	
D044	No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P303+P361+P3	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water [or shower].
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.
 Information pe 	ertaining to particular dangers for man and environment:
Classification	
· NFPA ratings (
He He	ealth = 2
Fi	re = 4
	eactivity = 0
\sim	
· HMIS-ratings (scale 0 - 4)
	lealth = 2
FIRE 4 F	ire = 4
REACTIVITY 0 R	Reactivity = 0
 Other hazards 	
Results of PB1	Γ and vPvB assessment
· PBT: Not applic	cable.
· vPvB: Not appl	
	according to (d)(1)(ii) of § 1910.1200
	er does not object to the classifications provided by importers or manufacturers of
precursor produ	
	therwise classified
	dverse physical or health effects known that are not covered by the hazard classes of the
Hazard Commu	inications Standard.
	7.8
3 Compositio	n/information on ingredients
· Chemical char	acterization: Mixtures
	lixture of the substances listed below with nonhazardous additions.
-	
 Dangerous con 	mponents:
CAS: 928-96-1	cis-3-Hexen-1-ol 50-100%

CAS: 928-96-1	cis-3-Hexen-1-ol	50-100%
EINECS: 213-192-8	🚸 Flammable liquids 3, H226; 🐠 Eye irritation 2A, H319	
CAS: 64-17-5	Ethanol	10-25%
EINECS: 200-578-6	🚸 Flammable liquids 2, H225	
CAS: 141-78-6	Ethyl acetate	10-25%
EINECS: 205-500-4	🚸 Flammable liquids 2, H225	
CAS: 111-27-3	Hexan-1-ol	2.5-10%
EINECS: 203-852-3	🛞 Flammable liquids 3, H226; 🚸 Acute toxicity - oral 4, H302; Acute	
	toxicity - dermal 4, H312	

(Continued on page 3)



Date of issue: 04/17/2025

Trade name: Green Key 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; 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.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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: 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: 64-17-5 Ethanol	1,800 ppm
CAS: 141-78-6 Ethyl acetate	1,200 ppm
CAS: 111-27-3 Hexan-1-ol	10 ppm
• PAC-2:	
CAS: 64-17-5 Ethanol	3300* ppm
CAS: 141-78-6 Ethyl acetate	1,700 ppm
CAS: 111-27-3 Hexan-1-ol	110 ppm
· PAC-3:	
CAS: 64-17-5 Ethanol	15000* ppm
CAS: 141-78-6 Ethyl acetate	10000** ppm
	(Continued on page 4)



Date of issue: 04/17/2025

Reviewed on 04/17/2025

(Continuation of page 3)

580 ppm

Trade name: Green Key Natural

CAS: 111-27-3 Hexan-1-ol

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.
- \cdot 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

· 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: 6	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: 1880 mg/m³, 1000 ppm A3
CAS: 1	41-78-6 Ethyl acetate
PEL	Long-term value: 1400 mg/m³, 400 ppm
REL	Long-term value: 1400 mg/m³, 400 ppm
TLV	Long-term value: 1440 mg/m³, 400 ppm
CAS: 1	11-27-3 Hexan-1-ol
WEEL	Long-term value: 40 ppm eye irritation
· Additio	onal information: The lists that were valid during the creation were used as a basis.
· Expos	ure controls
• Appropriate engineering controls No further data; see section 7.	
	nal protective equipment:
	al protective and hygienic measures:
Keep a	way from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

(Continued on page 5)

US



Date of issue: 04/17/2025

Reviewed on 04/17/2025

Trade name: Green Key Natural

(Continuation of page 4) Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin. · 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 specification · Odor: According to product specification Not determined. · Odor threshold: • Melting point/Melting range: Undetermined. · Boiling point/Boiling range: Undetermined. · Flammability: Highly flammable. · Explosion limits: · Lower: 3.5 Vol % · Upper: 15 Vol % · Flash point: 17.8 °C (64 °F) · Auto igniting: 425 °C (797 °F) Decomposition temperature: Not determined. · pH-value: Not determined. · Viscosity: · Kinematic: Not determined. · Dynamic: Not determined. (Continued on page 6)



Date of issue: 04/17/2025

Reviewed on 04/17/2025

Trade name: Green Key Natural

	(Continuation of page 5
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
Vapor pressure:	
Density at 20 °C (68 °F):	0.84-0.88 g/cm³ (7.0098-7.3436 lbs/gal)
Relative density	Not determined.
Specific Gravity	0.840 - 0.880 @ 20 °C (33.5 - 33.6 @ 68 °F)
Refractive Index	
Vapor density	Not determined.
Particle characteristics	Not applicable.
Other information	
Appearance:	
Form:	Liquid
Important information on protection of h	
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:	33.7 %
VOC content:	29.85 %
	250.7-262.7 g/l / 2.09-2.19 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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 13,158 mg/kg

Dermal LD50 46,053 mg/kg (ATE)

CAS: 928-96-1 cis-3-Hexen-1-ol

Oral LD50 4,615 mg/kg (ATE)

(Continued on page 7)

US

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

Date of issue: 04/17/2025

Trade name: Green Key Natural

(Continuation of page 6)
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Dermal LD50 >5,000 mg/kg (rabbit)

4,700 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · 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
- · 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 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.

(Continued on page 8)

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Date of issue: 04/17/2025

Reviewed on 04/17/2025

Trade name: Green Key Natural

(Continuation of page 7)

• Uncleaned packagings:
 • Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN1197
UN proper shipping name	
DOT, IATA	Extracts, liquid
IMDG	EXTRACTS, LIQUID
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3
IMDG, IATA	~
· , · · · · · ·	
•	/
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	<u> </u>
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: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code) EMS Number:	: 33 F-E,S-D



Date of issue: 04/17/2025

Reviewed on 04/17/2025

(Continuation of page 8)

Trade name: Green Key Natural

· Stowage Category	В	

• UN "Model Regulation":

UN 1197 EXTRACTS, LIQUID, 3, II

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	

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

(Continued on page 10)

- US

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Date of issue: 04/17/2025

Reviewed on 04/17/2025

Trade name: Green Key Natural

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	(Continuation of page 9)		
 Hazard statemer 	its		
H225 Highly flam	mable liquid and vapor.		
H319 Causes ser	ious eye irritation.		
 Precautionary st 	atements		
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+P35	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P305+P351+P338	8 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 informa	ntion		
any specific produ	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 phrase 			
	H225 Highly flammable liquid and vapor.		
H226 Flammable			
H302 Harmful if s			
H312 Harmful in o			
H319 Causes ser	ious eye irritation.		
· Department issuing SDS: Product Safety Department			
· Contact:	o		
Product Safety De	epartment		
productsafety@ad			
	version 01/24/2025		
Date of preparat			
Abbreviations ar			
ADR: Accord relatif a International Carriage	u transport international des marchandises dangereuses par route (European Agreement Concerning the 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 Acute toxicity - oral 4: Acute toxicity - Category 4 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A