

Printing date 01/16/2024

Reviewed on 01/16/2024

# 1 Identification

## · Product identifier

- <sup>•</sup> Trade name: Green Key MT Natural
- · Product number: 1531
- · 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

• **Hazard statements** H225 Highly flammable liquid and vapor.

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<ul> <li>ious eye irritation.</li> <li>tatements</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wi water/shower.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.</li> </ul>
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Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/internation regulations.
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## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
CAS: 928-96-1 EINECS: 213-192-8	cis-3-Hexenol Flammable Liquids 3, H226; () Eye Irritation 2A, H319	25-50%
CAS: 64-17-5 EINECS: 200-578-6	Ethanol Flammable Liquids 2, H225; () Eye Irritation 2A, H319	25-50%
CAS: 141-78-6 EINECS: 205-500-4	Ethyl acetate Flammable Liquids 2, H225;  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	≥10-<20%
CAS: 111-27-3 EINECS: 203-852-3	Hexan-1-ol Flammable Liquids 3, H226; O Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Eye Irritation 2A, H319	≤2.5%

## 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.

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- 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.

- 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.

• **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
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
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580 ppm

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

# 7 Handling and storage

- · Handling:
- · 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: 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 remaining constituent has no known exposure limits.

## CAS: 64-17-5 Ethanol

A3

- PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- TLV Short-term value: 1000 ppm

## CAS: 141-78-6 Ethyl acetate

- PEL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm
- REL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm
- TLV Long-term value: 400 ppm

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

WEEL Long-term value: 40 ppm

eye irritation

• 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.

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· Ignition temperature:

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(Continuation of page 4) 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 · Appearance: Form: Liquid Color: According to product specification · Odor: According to product specification Not determined. · Odor threshold: · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined. · Flash point: 9.9 °C (49.8 °F) · Flammability (solid, gaseous): Highly flammable. · Auto igniting: 425 °C (797 °F) Decomposition temperature: Not determined.

Product is not selfigniting.

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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):	0.835-0.855 g/cm³ (6.96808-7.13498 lbs/gal)
Specific Gravity	0.835 – 0.855 @ 20 °C (33.5 – 33.5 @ 68 °F)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	52.0 %
VOC content:	49.80 %
	415.8-425.8 g/l / 3.47-3.55 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 22,727 mg/kg

Dermal LD50 79,545 mg/kg (ATE)

## • Primary irritant effect:

• on the skin: No irritant effect.

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

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- · 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

· 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.

# 14 Transport information

· UN-Number

· DOT, IMDG, IATA

UN1197

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UN proper shipping name	
DOT	Extracts, flavoring, liquid
IMDG	EXTRACTS, LIQUID
ΙΑΤΑ	Extracts, liquid
Transport hazard class(es)	
DOT	
$\mathbf{V}$	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
$\mathbf{V}$	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	
Environmental hazards:	Na
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	
	F-E,S-D
Stowage Category	В
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passanger sizeroff/reil, E l
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
UN "Model Regulation":	UN 1197 EXTRACTS, LIQUID, 3, II
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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 Danger Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353	B If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	3 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.
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• 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.

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### · 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 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

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3