

**SECTION 1: Identification****1.1 Product identifier**

Product name                      Banana Kush  
Brand                                      True Terpenes

**1.4 Supplier's details**

Name                                      True Terpenes  
Address                                      Portland , Oregon  
  
Telephone                                  (888) 954-8550  
email    info@TrueTerpenes.com

**1.5 Emergency phone number(s)**

Poison Control Help Line:  
1 (800) 222-1222

**SECTION 2: Hazard identification****2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

**2.2 GHS label elements, including precautionary statements**

Not a hazardous substance or mixture.

**2.3 Other hazards which do not result in classification**

Not a hazardous substance or mixture.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components**

**1. Limonene**  
Concentration                              >= 34 %  
EC no.    227-813-5

CAS no. 5989-27-5

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 5
- Aspiration hazard (chapter 3.10), Cat. 1
- Flammable liquids (chapter 2.6), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2

|           |  |
|-----------|--|
| H226      | Flammable liquid and vapor                           |
| H303+H313 | May be harmful if swallowed or in contact with skin  |
| H304      | May be fatal if swallowed and enters airways         |
| H315      | Causes skin irritation                               |
| H317      | May cause an allergic skin reaction                  |
| H400      | Very toxic to aquatic life                           |
| H410      | Very toxic to aquatic life with long lasting effects |

**2. Beta Caryophyllene**

|               |         |
|---------------|---------|
| Concentration | <= 12 % |
| CAS no.       | 87-44-5 |

**3. Myrcene**

|               |          |
|---------------|----------|
| Concentration | >= 11 %  |
| CAS no.       | 123-35-3 |

- Aspiration hazard (chapter 3.10), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 2

|      |  |
|------|--|
| H226 | Flammable liquid and vapor                   |
| H226 | Flammable liquid and vapor                   |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation                       |
| H319 | Causes serious eye irritation                |

**4. Alpha Pinene**

|               |         |
|---------------|---------|
| Concentration | >= 9 %  |
| CAS no.       | 80-56-8 |

- Aspiration hazard (chapter 3.10), Cat. 1
- Flammable liquids (chapter 2.6), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2

|      |  |
|------|--|
| H226 | Flammable liquid and vapor                   |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation                       |
| H317 | May cause an allergic skin reaction          |
| H402 | Harmful to aquatic life                      |

**5. Beta Pinene**

|               |                    |
|---------------|--------------------|
| Concentration | <= 8 %             |
| EC no.        | No data available. |
| CAS no.       | 127-91-3           |

- Acute toxicity, dermal (chapter 3.1), Cat. 4
- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Aspiration hazard (chapter 3.10), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 3
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

|                |  |
|----------------|--|
| H226           | Flammable liquid and vapor                               |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled |
| H304           | May be fatal if swallowed and enters airways             |
| H315           | Causes skin irritation                                   |
| H317           | May cause an allergic skin reaction                      |
| H319           | Causes serious eye irritation                            |
| H335           | May cause respiratory irritation                         |

**6. Fenchol**

|               |           |
|---------------|-----------|
| Concentration | >= 5 %    |
| CAS no.       | 1632-73-1 |

- Eye damage/irritation (chapter 3.3), Cat. 2A
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

|      |   |
|------|---|
| H315 | Causes skin irritation                            |
| H319 | Causes serious eye irritation                     |
| H335 | May cause respiratory irritation                  |
| H412 | Harmful to aquatic life with long lasting effects |

**7. Terpineol**

|               |        |
|---------------|--------|
| Concentration | <= 5 % |
|---------------|--------|

CAS no. 8000-41-7

- Eye damage/irritation (chapter 3.3), Cat. 2A
- Skin corrosion/irritation (chapter 3.2), Cat. 2

H315 Causes skin irritation  
H319 Causes serious eye irritation

### 8. Ocimene

Concentration  $\geq 3\%$   
CAS no. 13877-91-3

- Flammable liquids (chapter 2.6), Cat. 3

H226 Flammable liquid and vapor

### 9. Humulene

Concentration  $\geq 2\%$   
CAS no. 6753-98-6

- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

H227 Combustible liquid  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

### 10. Alpha Bisabolol

Concentration  $\leq 2\%$   
CAS no. 515-69-5

- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 2
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

H401 Toxic to aquatic life  
H411 Toxic to aquatic life with long lasting effects

### 11. Linalool

Concentration  $\leq 2\%$   
EC no. 201-134-4  
CAS no. 78-70-6

- Acute toxicity, dermal (chapter 3.1), Cat. 4

- Acute toxicity, oral (chapter 3.1), Cat. 5
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 4
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 2

|           |                                |
|-----------|--------------------------------|
| H227      | Combustible liquid             |
| H303      | May be harmful if swallowed    |
| H312      | Harmful in contact with skin   |
| H315      | Causes skin irritation         |
| H315+H320 | Causes skin and eye irritation |
| H319      | Causes serious eye irritation  |
| H402      | Harmful to aquatic life        |

**12. Nerolidol**

|               |             |
|---------------|-------------|
| Concentration | $\geq 1 \%$ |
| CAS no.       | 7212-44-4   |

- Eye damage/irritation (chapter 3.3), Cat. 2A
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

|      |  |
|------|--|
| H319 | Causes serious eye irritation                        |
| H410 | Very toxic to aquatic life with long lasting effects |

**13. Camphene**

|               |             |
|---------------|-------------|
| Concentration | $\geq 1 \%$ |
| CAS no.       | 79-92-5     |

- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable solids (chapter 2.7), Cat. 2
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

|      |  |
|------|--|
| H228 | Flammable solid                                      |
| H319 | Causes serious eye irritation                        |
| H410 | Very toxic to aquatic life with long lasting effects |

**14. Borneol**

|               |             |
|---------------|-------------|
| Concentration | $\geq 1 \%$ |
| CAS no.       | 507-70-0    |

- Flammable solids (chapter 2.7), Cat. 2

|      |                 |
|------|-----------------|
| H228 | Flammable solid |
|------|-----------------|

**15. Phytol**

Concentration >= 1 %  
CAS no. 7541-49-3

- Eye damage/irritation (chapter 3.3), Cat. 2A
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

**16. Geranyl Acetate**

Concentration <= 1 %  
CAS no. 105-87-3

- Eye damage/irritation (chapter 3.3), Cat. 2A
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 2
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

H315 Causes skin irritation  
H315+H320 Causes skin and eye irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H401 Toxic to aquatic life

**17. Caryophyllene Oxide**

Concentration <= 1 %  
CAS no. 1139-30-6

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Skin corrosion/irritation (chapter 3.2), Cat. 2

H313 May be harmful in contact with skin  
H315 Causes skin irritation  
H319 Causes serious eye irritation

**18. Terpinolene**

Concentration <= 1 %  
EC no. 209-578-0  
CAS no. 586-62-9

- Flammable liquids (chapter 2.6), Cat. 4

- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

H227 Combustible liquid  
H410 Very toxic to aquatic life with long lasting effects

**19. Guaiol**

Concentration <= 1 %  
CAS no. 73003-40-4

**20. Valencene**

Concentration <= 1 %  
CAS no. 4630-07-3

- Acute toxicity, oral (chapter 3.1), Cat. 4

H302 Harmful if swallowed

**SECTION 4: First-aid measures****4.1 Description of necessary first-aid measures**

|  |   |
|--|---|
| General advice   | Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.                   |
| If inhaled   | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.             |
| In case of skin contact                                | Wash off with soap and plenty of water. Consult a physician.  |
| In case of eye contact                                 | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                                      |
| If swallowed   | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Personal protective equipment for first-aid responders | No data available.  |

**4.2 Most important symptoms/effects, acute and delayed**

No data available.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

No data available.

**SECTION 5: Fire-fighting measures****5.2 Specific hazards arising from the chemical**

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Limonene: Static charges generated by emptying package in or near flammable vapor may cause flash fire. Fire may produce irritating, corrosive and / or toxic gases.

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Beta Caryophyllene: Carbon oxides.

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Fenchol: No data available.

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Borneol: Unsuitable extinguishing agents: water with full jet.

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Caryophyllene Oxide: Hazardous decomposition products formed under fire conditions. Carbon oxides.

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Guaiol: Fire may produce irritating, corrosive and/or toxic gases.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.2 Environmental precautions**

No data available.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage, including any incompatibilities**



Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Container which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific end use(s)**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**SECTION 8: Exposure controls/personal protection****8.2 Appropriate engineering controls**

No data available.

**8.3 Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

No data available.

**Skin protection**

No data available.

**Body protection**

No data available.

**Respiratory protection**

No data available.

**Thermal hazards**

No data available.

**Control banding approach**

No data available.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

|   |                    |
|---|--------------------|
| Appearance/form (physical state, color, etc.) | No data available. |
| Odor  | No data available. |
| Odor threshold                                | No data available. |
| pH  | No data available. |
| Melting point/freezing point                  | No data available. |
| Initial boiling point and boiling range       | No data available. |
| Flash point                                   | No data available. |

|  |                    |
|--|--------------------|
| Evaporation rate                       | No data available. |
| Flammability (solid, gas)              | No data available. |
| Upper/lower flammability limits        | No data available. |
| Vapor pressure                         | No data available. |
| Vapor density                          | No data available. |
| Relative density                       | No data available. |
| Solubility(ies)                        | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature              | No data available. |
| Decomposition temperature              | No data available. |
| Viscosity                              | No data available. |
| Explosive properties                   | No data available. |
| Oxidizing properties                   | No data available. |

## SECTION 10: Stability and reactivity

### 10.5 Incompatible materials

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Limonene: Strong oxidizing agents.

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Myrcene: Strong oxidizing agents. Heat, flames and sparks.

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Alpha Pinene: Vapors may form explosive mixture with air. Heat, flames and sparks. Strong oxidizing agents.

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Beta Pinene: Strong oxidizing agents. Heat, flames, and sparks. Vapors may form explosive mixture with air.

-----

Terpineol: Oxidizing agents.

-----

Ocimene: No data available.

-----

Linalool: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong oxidizing agents.

-----

Borneol: No further relevant information available.

### 10.6 Hazardous decomposition products

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Limonene: No hazardous decomposition products if stored and handled as indicated.

-----

Beta Caryophyllene: No data available.

-----

Valencene: Hazardous decomposition products formed under fire conditions. Carbon oxides.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

-----

Limonene: Maybe fatal if swallowed and enters airways. May be harmful in contact with skin. May cause an allergic skin reaction.

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Beta Caryophyllene: No data available.

-----

Alpha Bisabolol: Dermal LD50 Rabbit: > 15,000 mg/kg

Oral LD50 Rat: > 20,000 mg/kg

-----

Linalool: LD50 Oral: Rat, 2,790 mg/kg  
LD50 Dermal: Rabbit, 2,000 mg/kg

-----

Geranyl Acetate: LD50 Oral: Rat, 6,330 mg/kg

#### Remarks:

Behavioral: Somnolence (general depressed activity).

Behavioral: Coma

-----

Caryophyllene Oxide: LD50 Oral: Rat, > 5,000 mg/kg  
LD50 Dermal: Rabbit, > 2,000 mg/kg

-----

Guaiol: Not known.

#### Skin corrosion/irritation

-----

Limonene: Causes skin irritation.

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Beta Caryophyllene: No data available.

-----  
Alpha Bisabolol: Prolonged skin contact may cause temporary irritation.

-----  
Linalool: Causes skin irritation.  
Guinea Pig - skin irritation, 24h, Draize Test  
Rabbit - irritant (OECD Guideline 405)

-----  
Camphene: Rabbit, no skin irritation - 4 h (OECD Test Guideline 404)

-----  
Borneol: No irritant effect.

-----  
Geranyl Acetate: Causes skin irritation.  
Species: Rabbit  
Result: Irritant  
Method: OECD Guideline 405

-----  
Caryophyllene Oxide: Rabbit, skin irritation, 24h

#### **Serious eye damage/irritation**

-----  
Limonene: Direct contact with eyes may cause temporary irritation.  
Eyes - rabbit. Result: No eye irritation.  
(OECD Test Guideline 405)

-----  
Beta Caryophyllene: No data available.

-----  
Linalool: Causes serious eye irritation.  
Rabbit - moderate eye irritation, Draize Test  
Rabbit - slightly irritating (OECD Guideline 405)

-----  
Camphene: Rabbit, irritating to eyes - 24 h (OECD Test Guideline 405)

-----  
Borneol: No irritating effect.

-----  
Geranyl Acetate: Causes serious eye irritation.  
Species: Rabbit  
Result: Irritant  
Method: OECD Guideline 405

**Respiratory or skin sensitization**

-----

Limonene: May cause an allergic skin reaction.  
Mouse. Result: May cause sensitisation by skin contact.  
(OECD Test Guideline 429)

-----

Beta Caryophyllene: No data available.

-----

Alpha Bisabolol: Not a respiratory sensitizer.

-----

Linalool: Patch-test / Human: Non-sensitizing  
Draize test / Guinea Pig: Non-sensitizing

-----

Borneol: No sensitizing effects known.

-----

Geranyl Acetate: Not a respiratory sensitizer.

May cause an allergic skin reaction.  
Species: Guinea Pig  
Result: Non-sensitizing

-----

Guaiol: Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**

-----

Limonene: Mouse  
Lymphocyte  
Result: Negative

Rat - Male  
Result: Negative

-----

Beta Caryophyllene: No data available.

-----

Alpha Bisabolol: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

-----

Linalool: Results from a number of mutagenicity studies with microorganisms, mammalian cell cultures and

mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

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Camphene: Hamster (ovary)  
Result: negative

Mouse (lymphocyte)  
Result: negative

Mutagenicity (micronucleus test) mouse (male and female)  
Result: negative

### **Carcinogenicity**

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Limonene: IARC Monographs: Overall Evaluation of Carcinogenicity - CARVENE (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA: Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

-----

Beta Caryophyllene: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possibly or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possibly or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possibly or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possibly or confirmed human carcinogen by OSHA.

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Myrcene: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

-----

Alpha Pinene: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

-----

Fenchol: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

-----

Ocimene: IARC: No component of this product, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product, present levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product, present levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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Alpha Bisabolol: OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

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Borneol: IARC: Substance is not listed.

NTP: Substance is not listed.

OSHA- Ca: Substance is not listed.

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Caryophyllene Oxide: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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Terpinolene: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

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Guaiol: IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052): Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not available.

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Valencene: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

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Limonene: This product is not expected to cause reproductive or developmental effects.

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Beta Caryophyllene: No data available.

### **Summary of evaluation of the CMR properties**

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Limonene: No data available.

### **STOT-single exposure**



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Limonene: Not classified.

-----  
Beta Caryophyllene: No data available.

-----  
Fenchol: Inhalation - May cause respiratory irritation.

-----  
Linalool: Not Classified.

#### **STOT-repeated exposure**

-----  
Limonene: Repeated dose toxicity - mouse - male and female - No observed adverse effect level - 1,650 mg/kg -  
Lowest observed adverse effect level - 3,300 mg/kg.

-----  
Beta Caryophyllene: No data available.

-----  
Alpha Bisabolol: Not classified.

-----  
Linalool: Not Classified.

#### **Aspiration hazard**

-----  
Limonene: No data available.

-----  
Alpha Bisabolol: Not an aspiration hazard.

## **SECTION 12: Ecological information**

### **Toxicity**

-----  
Limonene: Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

-----  
Beta Caryophyllene: No data available.

-----  
Alpha Bisabolol: EC10 Pseudomonas putida: > 10,000 mg/l, 16 hours

LC50 *Leuciscus idus* (Golden orfe): 4.6 - 10 mg/l, 96 hours

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Linalool: Activated sludge of a predominantly domestic sewage: EC10, > 100 mg/l, 3 hours

Green Algae (*Chlamydomonas variabilis*): EC50, 88.3 mg/l, 96 hours DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.

*Daphnia magna*: EC50, 20 mg/l, 48 hours DIN 38412 Part 11 static. The details of the toxic effect related to the nominal concentration.

Ides, silver or golden orfe (*Leuciscus idus*): LC50, 22 - 46 mg/l, 96 hours DIN 38412 Part 15 static. The details of the toxic effect related to the nominal concentration.

Fish: LC50-R, 27.8 mg/l, 96 hours.

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Camphene: Fish: Flow-through test LC50 - *Brachydanio rerio* (zebrafish) - 0.72 mg/l - 96 h (OECD Test Guideline 203)

*Daphnia* and Other Aquatic Invertebrates: Semi-static test EC50 - *Daphnia magna* (water flea) - 0.72 mg/l - 48 h (OECD Test Guideline 202)

Algae: Static test EC50 - *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) - > 1,000 mg/l - 72 h (OECD Test Guideline 201)

Bacteria: Respiration inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

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Geranyl Acetate: Green Algae (*Chlamydomonas variabilis*): EC50 3.72 mg/l, 72 hours OECD Guideline 201 static. The statement of the toxic effect relates to the analytically determined concentration.

*Daphnia magna*: EC50 14.1 mg/l, 48 hours Directive 84/449/EEC, C.2 static. The statement of the toxic effect relates to the analytically determined concentration.

Fish: LC50 68.12 mg/l, 96 hours *Cyprinus carpio*. OECD Guideline 203 static. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Bacterium: EC10 >10,000 mg/l, 0.5 hours DIN 38412 Part 27 (draft) aquatic. The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

-----

Guaiol: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### **Persistence and degradability**

-----

Limonene: Biodegradability: Result: 71% - Readily biodegradable. (OECD Test Guideline 301B)

-----  
Beta Caryophyllene: No data available.

-----  
Linalool: Biological/Abiological Degradation  
Test method: OECD 301D; EEC 92/69, C.4-E (aerobic), municipal sewage treatment plant effl.  
Method of analysis: BOD of the ThOD  
Degree of elimination: 60 - 70% (28 d)  
Evaluation: Readily biodegradable (according to OECD criteria)

-----  
Camphene: Aerobic - Exposure time 28d. Result: 14% - not readily biodegradable (OECD Test Guideline 301C)

-----  
Geranyl Acetate: Biological / Abiological Degradation  
Test Method: OECD Guideline 301F (aerobic), activated sludge, domestic  
Method of Analysis: BOD of the ThOD  
Degree of Elimination: >70% (28d)  
Evaluation: Readily biodegradable (according to OECD criteria)

Hydrolysis  
Test Method: OECD Guideline 111 (abiotic)  
pH7  
Half-life: 1.539 h (25°C)

Environmental Mobility:  
Transportation between environmental compartments:  
Calculated absorption / water-soil  
KOC: 1151  
Log KOC: 3.06

-----  
Guaiol: No data is available on the degradability of this substance.

### **Bioaccumulative potential**

-----  
Limonene: No data available.

-----  
Linalool: Significant accumulation in organisms is not to be expected.

-----  
Camphene: Cyprinus carpio (Carp) - 56 d at 25°C - 0.015 mg/l

Bioconcentration factor (BCF): 432 - 922 (OECD Test Guideline 305C)

### **Mobility in soil**

-----  
Limonene: No data available.

**Results of PBT and vPvB assessment**

-----  
Limonene: No data available.

**Other adverse effects**

-----  
Limonene: EC50 Water Flea (*Daphnia pulex*) 69.6 mg/l, 48 hours

LC50 Fathead minnow (*Pimephales promelas*) 0.619 - 0.796 mg/l, 96 hours

LC50 Rainbow trout, donaldson trout (*Oncorhynchus mykiss*) 35 mg/l, 4 days

EC50 Activated sludge 3.94 mg/l

-----  
Beta Caryophyllene: No data available.

-----  
Alpha Bisabolol: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13: Disposal considerations****Disposal of the product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.

**Disposal of contaminated packaging**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Waste treatment**

No data available.

**Sewage disposal**

No data available.

**SECTION 14: Transport information****DOT (US)**

UN Number:

Class:

Packing Group:



Proper Shipping Name:  
Reportable quantity (RQ):  
Marine pollutant:  
Poison inhalation hazard:

**IMDG**

UN Number:  
Class:  
Packing Group:  
EMS Number:  
Proper Shipping Name:

**IATA**

UN Number:  
Class:  
Packing Group:  
Proper Shipping Name:

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations specific for the product in question**

**CAA Section 112 HAPs List**

Not regulated.

**CAA Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm. This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any reproductive harm.

**California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**DSL Status**



# Banana Kush

## SAFETY DATA SHEET

All components of this product are on the Canadian DSL list.

### EPA

Substance is not listed.

### Massachusetts Right to Know Components

Chemical name:  $\alpha$ -Pinene

CAS number: 80-56-8. No components are subject to the Massachusetts Right to Know Act. No components are subject to the Massachusetts Right to Know Act.

### New Jersey Right to Know Components

Chemical Name: Caryophyllene

CAS Number: 87-44-5. Chemical Name: 7-Methyl-3-methyleneocta-1,6-diene,

CAS Number: 123-35-3. (-)-Pin-2(10)-ene, CAS No: 127-91-3. 3,3-Dimethyl-8,9-dinorbornan-2-ol CAS-No. 1632-73-1. 3,7-Dimethylocta-1,3,6-triene CAS No: 13877-91-3. Chemical Name: Humulene

CAS Number: 6753-98-6. Chemical Name: Camphene

CAS Number: 79-92-5. 2-Hexadecen-1-ol,3,7,11,15-tetramethyl- CAS-No: 7541-49-3. [1R-(1R\*,4R\*6R\*,10S\*)]-

4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.0.4,6]dodecane CAS-No. 1139-30-6. Chemical name:  $\alpha$ -Pinene

CAS number: 80-56-8. No components are subject to the New Jersey Right to Know Act.

### NIOSH-Ca

Substance is not listed.

### OSHA Hazards

Irritant. No known OSHA hazards.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### Pennsylvania Right to Know Components

Chemical Name: Caryophyllene

CAS Number: 87-44-5. Chemical Name: 7-Methyl-3-methyleneocta-1,6-diene,

CAS Number: 123-35-3. (-)-Pin-2(10)-ene, CAS No: 127-91-3. 3,3-Dimethyl-8,9-dinorbornan-2-ol CAS-No. 1632-73-1. 3,7-Dimethylocta-1,3,6-triene CAS No: 13877-91-3. Chemical Name: Humulene

CAS Number: 6753-98-6. Chemical Name: Camphene

CAS Number: 79-92-5. 2-Hexadecen-1-ol,3,7,11,15-tetramethyl- CAS-No: 7541-49-3. [1R-(1R\*,4R\*6R\*,10S\*)]-

4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.0.4,6]dodecane CAS-No. 1139-30-6. Chemical name:  $\alpha$ -Pinene

CAS number: 80-56-8. No components are subject to the Pennsylvania Right to Know Act.

### Proposition 65

Substance is not listed.

### Right to Know Components (Pennsylvania, New Jersey, Massachusetts)

Terpineol, CAS No. 8000-41-7

### Right to Know Components (Pennsylvania, New Jersey)

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers, CAS-No. 7212-44-4. p-Mentha-1,4(8)-diene, CAS No. 586-62-9

### Safe Drinking Water Act (SDWA)

Not regulated.

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 302 Extremely Hazardous Substance**

Not listed.

**SARA 304 Emergency Release Notification**

Not regulated.

**SARA 311 / 312**

No SARA hazards.

**SARA 311 / 312 Hazardous Chemical**

Yes. No.

**SARA 311 / 312 Hazards**

Fire hazard, acute health hazard. Fire hazard, acute health hazard. Acute health hazard. Acute Health Hazard. Fire Hazard. No SARA Hazards.

**SARA 311/312**

Fire hazard.

**SARA 311/312 Hazardous Chemical**

No.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard. Fire hazard, acute health hazard.

**SARA 313 (TRI Reporting)**

Not regulated.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

**SARA Hazard Categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No. Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No. Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

**SARA Section 313 (specific toxic chemical listings)**

Substance is not listed.

**SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

**SDWA**

Not regulated.



**TLV**

Substance is not listed.

**TSCA**

Substance is listed.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt.D)**

Not regulated.

**US California Proposition 65 CRT: Listed Substance**

Not listed.

**US Federal Regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**US Federal Regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**US Massachusetts RTK - Substance List**

Not regulated.

**US New Jersey Work and Community Right-to-Know Act**

Not listed.

**US Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US Rhode Island RTK**

Not regulated.

**US. California Proposition 65 CRT: Listed Substance**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

CARVENE (CAS 5989-27-5). Not listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed. Not available.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**SECTION 16: Other information**

True Terpenes cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions





# Banana Kush

## SAFETY DATA SHEET

for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufactures, and technical groups and is considered to be accurate to the best of True Terpenes' knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.