



# Safety Data Sheet

## Yuzu Fragrance Oil

July 12, 2019

### Section 1: Chemical Product and Company Identification

**Product name:** Yuzu Fragrance Oil  
**Contact Info:** Bramble Berry Inc.  
2138 Humboldt Street  
Bellingham, WA 98225  
info@brambleberry.com  
www.brambleberry.com  
1-877-627-7883

**Emergency Phone Number:**  
Within USA & Canada: 1.800.424.9300 CCN693143  
Outside USA & Canada: +1.703.527.3887 (collect calls accepted)

### Section 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of the regulation(s) noted below.

#### Classification according to GHS and (EC) No 1272/2008 (CLP)

Flammable Liquids, Category 3	H226: Flammable liquid and vapour
Acute Toxicity Oral, Category 5	H303: May be harmful if swallowed
Aspiration Hazard, Category 1	H304: May be fatal if swallowed and enters airways
Acute Toxicity Dermal, Category 5	H313: May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2	H315: Causes skin irritation
Sensitization, Skin, Category 1A	H317: May cause an allergic skin reaction
Acute Toxicity Inhalation, Category 5	H333: May be harmful if inhaled
Aquatic Chronic Toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects

#### Classification OSHA (Provisions 1910.1200 of title 29)

Flammability	Class II Combustible Liquid
Acute Dermal/Eye	11 : May cause skin irritation. 16 : Causes eye irritation.
Acute Inhalation	23 : May cause respiratory tract irritation.
Acute Oral	3 : May be harmful if swallowed
Target Organ Effects	28 : Prolonged or repeated Dermal Exposure may cause damage to: kidneys, skin
Carcinogenicity	This mixture contains ingredients identified as carcinogens, at 0.1% or greater, by the following: None [X] ACGIH [ ] IARC [ ] NTP [ ] OSHA [ ]

## 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word: **Danger**

Hazard statements

H226	Flammable liquid and vapour
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H333	May be harmful if inhaled
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

**Prevention:**

P233	Keep container tightly closed
P235	Keep cool
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment

**Response:**

P301 + P310 + P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with soap and water
P303 + P361 P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing Rinse skin with + water/shower
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention
P352	Wash with soap and water
P362	Take off contaminated clothing and wash before reuse

- P363 Wash contaminated clothing before reuse
- P370 + P378 In case of fire: Use Carbon dioxide (CO<sub>2</sub>), Dry chemical, or Foam for extinction. Do not use a direct water jet on burning material
- P391 Collect Spillage

### 2.3 Other Hazards

No data available

## Section 3: Composition/Information on Ingredients

### 3.1 Mixtures

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

CAS# <i>Ingredient</i>	EC#	Conc. Range	GHS Classification	OSHA Classification
120-51-4 Benzyl Benzoate	204-402-9	40 – 50 %	H302; H313; H400; H411	28, 3
5989-27-5 <i>Limonene</i>	227-813-5	40 – 50 %	H226; H304; H315; H317; H400; H410	11, 15, 23
101-86-0 <i>Hexyl cinnamaldehyde</i>	202-983-3	1 – 2 %	H303; H316; H317; H400; H411	11, 15
104-67-6 <i>gamma-Undecalactone</i>	203-225-4	1 – 2 %	H316; H402; H412	11
103-60-6 <i>2-Phenoxyethyl isobutyrate</i>	203-127-1	1 – 2 %	H316	11
706-14-9 <i>gamma-Decalactone</i>	211-892-8	1 – 2 %	H316	
8007-75-8 <i>Citrus aurantium bergamia (Bergamot) fruit oil</i>	289-612-9	0.1 – 1.0%	H226; H304; H315; H317; H319; H401; H411	12, 3, 31
68737-61-1 <i>Dimethyltetrahydro Benzaldehyde</i>	272-113-5	0.1 – 1.0 %	H227; H303; H313; H315; H317; H401; H411	12, 15, 31
80-54-6 <i>Butylphenyl Methylpropional</i>	201-289-8	0.1 – 1.0 %	H227; H302; H315; H317; H361; H401; H412	11, 15, 26, 28, 3, 31, 39
115-95-7 <i>Linalyl Acetate</i>	204-116-4	0.1 – 1.0 %	H227; H315; H317; H320; H402	
57378-68-4 <i>delta-1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one (delta-Damascone)</i>	260-709-8	0.1 – 1.0 %	H302; H315; H317; H318; H400; H410	11, 15, 31

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content (% w/w) = 43.51

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air and keep at rest. Obtain medical advice.

**Eye Exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

**Skin Exposure:** Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.

**Ingestion:** Rinse mouth with water and obtain medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms:** no data available

**Risks:** Refer to Section 2.2 "Hazard Statements"

### 4.3 Indication of any immediate medical attention and special treatment needed Treatment:

Refer to Section 2.2 "Response"

## Section 5: Fire-Fighting Measures

### 5.1 Extinguishing media

**Suitable:** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam.

**Unsuitable:** Do not use a direct water jet on burning material.

### 5.2 Special hazards arising from the substance or mixture

**During firefighting:** Water may be ineffective.

### 5.3 Advice for firefighters

**Further information:** Standard procedure for chemical fires.

## Section 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

### 6.2 Environmental precautions

Keep away from drains, soil, and surface and groundwater.

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

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

#### 6.4 Reference to other sections

Not Applicable.

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

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

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid plastic and uncoated metal container. Keep air contact to a minimum.

### 7.3 Specific end uses

No information available

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

**Exposure Limits:** Contains no substances with occupational exposure limit values

**Engineering Controls:** Use local exhaust as needed.

### 8.2 Exposure controls - Personal protective equipment

**Eye protection:** Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure

**Respiratory protection:** Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.

**Skin protection:** Avoid Skin contact. Use chemically resistant gloves as needed.

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** Liquid

**Odor:** Conforms to Standard

**Color:** Colorless to Nearly Colorless (G0)

**Viscosity:** Liquid

**Freezing Point:** Not determined

**Boiling Point:** Not determined

**Melting Point:** Not determined

**Flashpoint (CCCFP):** 134°F (56.67°C)

**Auto flammability:** Not determined  
**Explosive Properties:** None Expected  
**Oxidizing properties:** None Expected  
**Vapor Pressure (mmHg@20 C):** 0.4936  
**%VOC:** 44.97  
**Specific Gravity @ 25 C:** 0.9650  
**Density @ 25 C:** 0.9620  
**Refractive Index @ 20 C:** 1.5110  
**Soluble in:** Not Determined

## Section 10: Stability and Reactivity

**10.1 Reactivity** None  
**10.2 Chemical stability** Stable  
**10.3 Possibility of hazardous reactions** None known  
**10.4 Conditions to avoid** None known  
**10.5 Incompatible materials** Strong oxidizing agents, strong acids, and alkalis  
**10.6 Hazardous decomposition products** None known

## Section 11: Toxicological Information

### 11.1 Toxicological Effects

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

**Acute toxicity - Oral - (Rat) mg/kg** (LD50: 2303.93): May be harmful if swallowed  
**Acute toxicity - Dermal - (Rabbit) mg/kg** (LD50: 2766.39): May be harmful in contact with skin  
**Acute toxicity - Inhalation - (Rat) mg/L/4hr** (LC50: 40.81): May be harmful if inhaled

**Skin corrosion / irritation:** Causes skin irritation

**Serious eye damage / irritation:** Not classified - the classification criteria are not met

**Respiratory sensitization:** Not classified - the classification criteria are not met

**Skin sensitization:** May cause an allergic skin reaction

**Germ cell mutagenicity:** Not classified - the classification criteria are not met

**Carcinogenicity:** Not classified - the classification criteria are not met

**Reproductive toxicity:** Not classified - the classification criteria are not met

**Specific target organ toxicity - single exposure:** Not classified - the classification criteria are not met.

**Specific target organ toxicity - repeated exposure:** Not classified - the classification criteria are not met.

**Aspiration hazard:** May be fatal if swallowed and enters airways

## Section 12: Ecological Information

### 12.1 Toxicity

**Acute aquatic toxicity:** Not classified - the classification criteria are not met

**Chronic aquatic toxicity:** Toxic to aquatic life with long lasting effects.

**Toxicity Data on soil:** No data available.

**Toxicity on other organisms:** No data available.

**12.2 Persistence and degradability:** No data available.

**12.3 Bioaccumulative potential:** No data available.

**12.4 Mobility in soil:** No data available.

**12.5 Other adverse effects:** No data available.

## Section 13: Disposal Conditions

### 13.1 Waste treatment methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

## Section 14: Transport Information

Regulator	Class	Pack Group	Sub Risk	UN-nr.
<b>U.S. DOT (Non-Bulk)</b> Chemicals NOI	3	III	Flammable Liquid	UN1266
<b>ADR/RID (International Road/Rail)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
<b>IATA (Air Cargo)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	3 9	III III	Flammable Liquid	UN3082
<b>IMDG (Sea)</b> Environmentally Hazardous Substance, Liquid, n.o.s.	3 9	III III	Flammable Liquid	UN3082

## Section 15: Regulatory Information

### U.S. Federal Regulations:

**TSCA (Toxic Substance Control Act):** All components of the substance/mixture are listed or exempt.

**40 CFR (EPCRA, SARA, CERCLA and CAA):** This product contains NO components of concern.

### U.S. State Regulations:

**California Proposition 65 Warning:** This product contains the following components:

123-35-3(NFS)    204-622-5    0.1 - 1.0 %    beta-Myrcene (NFS)

**Canadian Regulations:**

**DSL / NDSL:** 100.00% of the components are listed or exempt. The following components are NOT on the List:

20016-72-2	208-546-3	<= 1 ppm	Dimyrcene
6753-98-6	229-816-7	<= 0 ppm	3,7,10-Humulatriene
484-20-8		<= 0 ppm	Begapten (5-MOP)
3856-25-5	223-364-4	<= 1 ppm	a-Copaene

**Section 16: Other Information**

**GHS H-Statements referred to under section 3**

H227 : Combustible liquid	H302 : Harmful if swallowed
H316 : Causes mild skin irritation	H317 : May cause an allergic skin reaction
H318 : Causes serious eye damage	H319 : Causes serious eye irritation
H320 : Causes eye irritation	H361 : Suspected of damaging fertility or the unborn child
H400 : Very Toxic to aquatic life	H402 : Harmful to aquatic life
H401 : Toxic to aquatic life	H412 : Harmful to aquatic life with long lasting effects
H411 : Toxic to aquatic life with long lasting effects	

**Total Fractional Values**

**(TFV) Risk**

(4.38) Aspiration Hazard, Category 1  
 (10.00) Sensitization, Skin, Category 1A

**(TFV) Risk**

(4.51) Skin Corrosion/Irritation, Category 2  
 (1.73) Aquatic Chronic Toxicity, Category 1

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