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## Safety Data Sheet

### Ginger Essential Oil

August 07, 2020

#### Section 1: Chemical Product and Company Identification

**Product name:** Ginger Essential 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

##### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B
Aspiration hazard	Category 1
Flammable liquids	Category 4

##### Hazards no otherwise classified (HNOC)

Not applicable

##### Label Elements

**Signal Word:** Danger

##### Hazard Statements

Causes skin irritation  
Causes serious eye damage  
May cause an allergic skin reaction  
May be fatal if swallowed and enters airways  
Combustible liquid



**Appearance:** Pale Yellow

**Physical State:** Liquid

**Precautionary Statements – Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Keep away from flames and hot surfaces. – no smoking

Wear protective gloves/eye protection/face protection

**Precautionary statements – response**

Specific treatment (see supplemental first aid instructions on this label)

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN:** Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**IF SWALLOWED:** Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

**In case of fire:** Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

**Precautionary Statements – Storage**

Store locked up

Store in a well-ventilated place. Keep Cool

**Precautionary Statements – Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other information**

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.



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### Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	Weight - %	GHS Classification
Citral	5392-40-5	10-20	Acute Tox. Dermal 5 (H313) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317) Aquatic Acute 2 (H401)
Camphene	79-92-5	10-20	Flam. Sol. 2 (H228) Eye Irrit. 2B (H320) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
l-beta-bisabolene	495-61-4	5.0-10	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Asp. Tox. 1 (H304)
Alpha-farnesene	502-61-4	1.0-5.0	Asp. Tox. 1 (H304)
Geraniol	106-24-1	1.0-5.0	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Eye Dam. 1 (H318) Aquatic Acute 3 (H402) Acute Tox. Oral 5 (H303)
Limonene	5989-27-5	1.0-5.0	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)
Alpha-Pinene	80-56-8	1.0-5.0	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Acute Tox. Oral 4 (H302) Skin Sens. 1B (H317) Asp. Tox., 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Eucalyptol	470-82-6	1.0-5.0	Flam. Liq. 3 (H226) Acute Tox. Oral 5 (H303) Skin Irrit. 3 (H316) Skin Sens. 1B (H317)
Linalool	78-70-6	1.0-5.0	Skin Irrit. 2 (H315) Flam. Liq. 4 (H227)



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			Acute Tox. Oral 4 (H303) Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Aquatic Acute 3 (H402)
6-Methyl-5-hepten-2-one	110-93-0	1.0-5.0	Flam. Liq. 3 (H226) Acute Tox. Oral 5 (H303) Aquatic Acute 2 (H401)
l-borneol	464-45-9	1.0-5.0	Skin Irrit. 2 (H315) Flam. Sol. 1 (H228) Aquatic Acute 2 (H401)
Beta-myrcene	123-35-3	1.0-5.0	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Eye Irrit. 2A (H319) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)
Geranyl acetate	105-87-3	1.0-5.0	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Chronic 3 (H412) Aquatic Acute 2 (H401)
Citronellol	106-22-9	0.1-1.0	Acute Tox. Dermal 5 (H313) Acute Tox. Oral 5 (H303) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Aquatic Acute 2 (H401)

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4: First Aid Measures

#### Description of first aid measures

**General Advice:** Immediate medical attention is required. Show this safety data sheet to a doctor in attendance.

**Inhalation:** Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur.

**Eye contact:** Rise immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.



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**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated, clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. ASPIRATION HAZARD IF SWALLOWED – CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention.

**Self-protection of the first aider:** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.

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

**Symptoms:** Burning sensation, itching, rashes, hives, difficulty in breathing, coughing and/or wheezing, dizziness

### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians:** May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

## **Section 5: Fire-Fighting Measures**

**Suitable Extinguishing media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water Spray. Alcohol resistant foam.

**Large Fire:** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media:** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical:** Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by skin contact.

### **Explosion data**

**Sensitivity to mechanical impact:** None

**Sensitivity to static discharge:** Yes

### **Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **Section 6: Accidental Release Measures**

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

**Personal precautions:** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk



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through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

**Other information:** Refer to protective measures listed in sections 7 and 8

### Methods and material for containment and cleaning up

**Methods for containment:** Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up:** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## Section 7: Handling and Storage

### Precautions for safe handling

**Advice on safe handling:** Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. IN case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

## Section 8: Exposure Controls/Personal Protection

### Control parameters

#### Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citral 5392-40-5	Dermal sensitizer TWA: 5 ppm inhalable fraction and vapor S*		
Alpha-Pinene 80-56-8	Dermal sensitizer TWA: 20 ppm		

### Appropriate engineering controls

**Engineering controls:** Showers, eyewash stations, ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** tight sealing safety goggles

**Hand protection:** Wear suitable gloves. Impervious gloves

**Skin and body protection:** Wear suitable protective clothing. Long sleeved clothing.



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**Respiratory protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations:** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area, and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, or clothing. Wear suitable gloves and eye/face protection.

### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

**Physical State:** Liquid

**Appearance:** Liquid

**Odor:** Conforms to Standard

**Odor threshold:** No information available

**pH:** no information available

**Melting point/freezing point:** no information available

**Boiling point/boiling range:** >35 °C

**Flashpoint (CC):** 62 °C / 144 °F

**Evaporation rate:** no information available

**Flammability (solid, gas):** no information available

**Vapor pressure (mmHG @ 20°C):** no information available

**Vapor density:** no information available

**Relative density:** no information available

**Specific gravity @ 20/20 °C (RTM-101):** 0.8750-0.8950

**Solubility(ies):**

**Water:** no information available

**Other solvents:** no information available

**Partition coefficient:** no information available

**Autoignition temperature:** no information available

**Decomposition temperature:** no information available

**Viscosity:** no information available

#### Other information

**Explosive properties:** no information available

**Oxidizing properties:** no information available

### Section 10: Stability and Reactivity

**Reactivity** No information available

**Chemical stability** Stable under normal conditions

**Possibility of hazardous reactions** None under normal processing

**Conditions to avoid** heat, flames, and sparks

**Incompatible materials** Strong acids, strong bases, strong oxidizing agents

**Hazardous decomposition products** None known based on information supplied

## Section 11: Toxicological Information

### Information on likely routes of exposure

#### Product information

**Inhalation:** specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

**Eye contact:** specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes. (based on components).

**Skin contact:** specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.

**Ingestion:** specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical, and toxicological characteristics

**Symptoms:** redness. Burning. may cause blindness. Itching. Rashes. hives. Difficulty in breathing. Coughing and/or wheezing. Dizziness. may cause redness and tearing of the eyes.

### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral):** >5000 mg/kg

**ATEmix (dermal):** >5000 mg/kg

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation:** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation:** Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitization:** May cause sensitization by skin contact.

**Germ Cell mutagenicity:** No information available

**Carcinogenicity:** No information available

## Section 12: Ecological Information



**Ecotoxicity:** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Persistence and degradability:** No information available.

**Bioaccumulation:** There is no data for this product.

**Other adverse effects:** No information available.

## Section 13: Disposal Conditions

**Waste treatment methods**

**Waste from residues/unused product:** dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging:** Do not reuse empty containers.

## Section 14: Transport Information

Regulator	Class	Pack Group	EmS-No	UN-nr.
<b>U.S. DOT (Non-Bulk)</b> Chemicals NOI	Not Regulated - Not Dangerous Goods			
<b>IATA (Air Cargo)</b> Environmentally Hazardous Substance, Liquid, n.o.s. (Citral and Camphene)	9	III		UN3082
<b>IMDG (Sea)</b> Environmentally Hazardous Substance, Liquid, n.o.s. (Citral and Camphene)	9	III	F-A, S-F	UN3082

## Section 15: Regulatory Information

**US Federal Regulations**

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories:** Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**US State regulations**

**California Proposition 65:** This product does not contain any proposition 65 chemicals.

## Section 16: Other Information



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