

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Ginger Organic Essential Oil
Botanical name	:	Zingiber officinale
INCI name	:	Zingiber Officinale Root Oil
CAS #	:	8007-08-7
Country of Origin	:	Sri Lanka
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

### GHS Classification

Flammable liquids - Category 3

Aspiration Hazard- Category 1

Skin corrosion/irritation - Category 2

Skin Sensitization - Category 1

Serious eye damage/eye irritation - Category 2A

Hazardous to the aquatic environment - Chronic- Category 2

### GHS Label elements, including precautionary statements



Signal: Danger

### Hazard statement(s)

H226	Flammable liquid and vapour.
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.
H411	Toxic to aquatic life with long-lasting effects.

### Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P321	Specific treatment (see section 4 on this label).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use appropriate fire extinguisher to extinguish.
P391	Collect spillage.
P403+P235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container according to local regulations.

#### Other Info

### 3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
beta-Sesqui Phellandrene	-	-	3.00 - 9.00 %
ar-Curcumene + beta-Zingibarene	-	-	18.00 - 22.50 %
alpha-Zingibarene	-	-	29.00 - 35.00 %
Bisabolene	-	-	4.00 - 9.00 %

### 4. FIRST AID MEASURES

#### Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

#### Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

### **Inhalation**

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

### **Ingestion**

Seek medical attention or contact local poison control center.

## **5. FIRE FIGHTING MEASURES**

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### **Suitable extinguishing media**

Foam. Dry Powder. Carbon dioxide.

### **Unsuitable extinguishing media**

Water spray, water jet.

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

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

### **Special hazards arising from the substance or its combustible products**

Hazardous decomposition products may be formed at extreme heat or if burned.

### **Resulting gases**

Carbon oxides.

## **6. ACCIDENTAL RELEASE MEASURES**

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

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

## **7. HANDLING AND STORAGE**

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### **Precautions for safe handling**

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

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

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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### **Exposure controls**

Provide adequate ventilation. Respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

### **Eyes**

Use tightly sealed goggles.

### **Skin**

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

## Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

## Ingestion

Not for ingestion.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	:	Pale yellow to yellow liquid.
Odor	:	Characteristic spicy, somewhat pungent ginger odor.
Flash point	:	54.4 °C
Relative density	:	0.8680 to 0.8830 @ 30 °C
Solubility (ies)	:	Miscible in fat soluble organic solvents and fatty oils. Insoluble in water.
Refractive index	:	1.4840 to 1.4920 @ 25 °C
Optical rotation	:	-45° to -29° @ 27 °C

## 10. STABILITY AND REACTIVITY

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### Reactivity

This material presents no significant reactivity hazard.

### Chemical stability

Chemically stable.

### Possibility of hazardous reactions

Hazardous polymerization will not occur.

### Conditions to avoid

Avoid sparks, flame and other heat sources.

### Incompatible materials

Strong acids, strong alkalies and oxidizing agents.

### Hazardous decomposition products

Carbon monoxide and unidentified organic compounds may be formed during combustion.

## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity

Oral/Parental Toxicity:

Oral-rat LD50 >5000mg/kg

Oral-mouse LD50 3450mg/Kg

Dermal Toxicity:

skin-rabbit LD50 >5000mg/Kg

skin-rabbit LD50 >5000mg/Kg

### Carcinogenicity

None of the components of this material are listed as a carcinogen.

### Chronic toxicity

May cause allergic reactions on skin.

### Reproductive toxicity

No adverse effects on reproduction are known.

### Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

**Skin contact**

Adverse skin effects should be prevented by normal care and personal hygiene.

**Eye contact**

Possible irritation should be prevented by wearing safety glasses.

**Ingestion**

Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting

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**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Aquatic toxicity: Quantitative data on the ecological effect of this product is not available.

Remarks: Do not allow to enter water, waster water or soil.

Toxic to aquatic organisms.

**Persistence and degradability**

Sensitivity to air, light, Oxidizing agent, Acid and Alkali however long term degradation product may arise.

**Bio - accumulative potential**

This product is unlikely to accumulate in the environment.

**Mobility in soil**

Some little portion dissolves in the water and moves.

**Other adverse effects**

Not available.

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**13. DISPOSAL CONSIDERATION**

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

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**14. TRANSPORT INFORMATION****UN Number**

3082

**UN proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Ginger oil)

**Transport hazard class**

9

**Packing group**

III

**US DOT Shipping Description (Land)**

3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Ginger oil)

**Class**

9

**Packaging group**

III

**IMO-IMDG Shipping Description (Sea)**

3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Ginger oil)

**Class**

9

**Packaging group**

III

**IMDG-Marine pollution**

Yes.

**IATA Shipping Description (Air)**

3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Ginger oil)

**Class**

9

**Packaging group**

III

**15. REGULATORY INFORMATION**

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**SARA 313**

None.

**California Proposition 65**

This product does not contain chemicals listed per the Safe Drinking Water and Enforcement Act of 1986.

**GHS Hazard Statements**

Please refer to section 2.

**GHS Precautionary Statements**

Please refer to section 2.

**16. OTHER INFORMATION**

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**Disclaimer & Caution**

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