



# Essential Oils, Skincare & Aromatherapy Products

## SAFETY DATA SHEET

### **1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME: Ginger Essential Oil

SUPPLIER: Celtic Tree Oils, Carlingford, Co. Louth, Ireland, A91 D86V

PRODUCT NUMBER: 21

CAS NUMBER: 8007-08-7

INCI: Zingiber Officinale Root Oil

IDENTIFIED USES: Suitable for cosmetic flavouring, fragrance and professional use only.

BIOLOGICAL DEFINITION: Zingiber Officinale Oil is the volatile oil obtained from the dried rhizomes of the Ginger, Zingiber officinale L., Zingiberaceae

### **2: HAZARDS IDENTIFICATION**

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 8007-08-7

#### **CLASSIFICATION (EC 1272/2008):**

- PHYSICAL HAZARDS: Not classified.
- HEALTH HAZARDS: Asp. Tox. 1 - H304  
Skin Irrit. 2 - H315  
Skin Sens. 1 - H317  
Eye Irrit. 2 - H319
- ENVIRONMENTAL HAZARDS: Aquatic Chronic 1- H410

### **LABEL ELEMENTS**

PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

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.

H410- Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P261- Avoid breathing fume/mist/vapours/spray.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352- IF ON SKIN: Wash with plenty of soap and water.

P262 Do not get in eyes, on skin, or on clothing.

P333+313 - If skin irritation or rash occurs: Get medical advice/attention.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container to an approved waste disposal plant.

CONTAINS:

b-bisabolene, alpha- Pinene, beta-Pinene, d- Limonene, Terpinolene

### **3: COMPOSITION/INFORMATION ON INGREDIENTS**

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#### **≤ 10.0% b-bisabolene**

CAS NUMBER: 495-61-4

EC NUMBER: 610-461-5

CLASSIFICATION (EC 1272/2008):

Asp. Tox. 1- H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

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#### **≤ 10.0% Camphene**

CAS NUMBER: 79-92-5

EC NUMBER: 201-234-8

CLASSIFICATION (EC 1272/2008):

Flam. Sol. 1 - H228

Eye Irrit. 2 - H319

Aquatic Chronic 1- H410

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#### **≤ 10.0% alpha- Pinene**

CAS NUMBER: 80-56-8

EC NUMBER: 201-291-9

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 - H226

Acute Tox. 4- H302

Asp. Tox. 1- H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1- H400,

Aquatic Chronic 1 - H410

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#### **≤ 10.0% d-Limonene**

CAS NUMBER: 5989-27-5

EC NUMBER: 227-813-5

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 - H226

Asp. Tox. 1- H304

Skin Irrit. 2 - H315

Skin Sens. 1- H317

Aquatic Acute 1- H400

Aquatic Chronic 1- H410

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#### **≤ 10.0% Eucalyptol**

CAS NUMBER: 470-82-6

EC NUMBER: 207-431-5

CLASSIFICATION (EC 1272/2008):

Flam. Liq. 3 H226

Skin Sens. 1 H317

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#### **≤ 1.0% Geraniol**

CAS NUMBER: 106-24-1

EC NUMBER: 203-377-1

CLASSIFICATION (EC 1272/2008):

Skin Irrit. 2 - H315

Skin Sens. 1- H317

Eye Dam. 1- H318

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**≤ 1.0% Terpinolene**

CAS NUMBER: 586-62-9

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 209-578-0

Asp. Tox. 1- H304

Skin Sens. 1B - H317

Aquatic Acute 1- H400

Aquatic Chronic 1- H410

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**≤ 1.0% Beta- pinene**

CAS NUMBER: 127-91-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-872-5

Flam. Liq. 3 - H226

Asp. Tox. 1- H304

Skin Irrit. 2 - H315

Skin Sens. 1 – H317

Aquatic Acute 1- H400

Aquatic Chronic 1 - H410

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**≤ 1.0% Citral**

CAS NUMBER: 5392-40-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 226-394-6

Skin Irrit. 2 - H315

Skin Sens. 1 H317

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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**4: FIRST AID MEASURES**

INHALATION:

Move to fresh air in case of accidental inhalation of vapours. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapours or decomposition products.

INGESTION:

Do not induce vomiting without medical advice. Clean mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Clean mouth with water and drink afterwards plenty of water. Call a physician. Do NOT induce vomiting.

SKIN CONTACT:

Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Consult a physician if necessary. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

EYE CONTACT:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

MOST IMPORTANT SYMPTOMS AND EFFECTS,

BOTH ACUTE AND DELAYED:

None known.

INDICATION OF ANY IMMEDIATE MEDICAL

ATTENTION AND SPECIAL TREATMENT NEEDED:

Treat symptomatically.

## **5: FIREFIGHTING MEASURES**

EXTINGUISHING MEDIA RECOMMENDED:

Use Carbon dioxide CO<sub>2</sub>, dry chemical, or foam.

SPECIAL HAZARDS ARISING FROM THE PRODUCT:

Keep product and empty container away from heat and sources of ignition. Risk of ignition. Hazardous combustion products Irritating, or toxic substances may be emitted upon burning, combustion, or decomposition.

ADVICE FOR FIREFIGHTERS:

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## **6: ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

- PERSONAL PRECAUTIONS:

Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

- FOR EMERGENCY RESPONDERS:

Use personal protection recommended in Section 8.

ENVIRONMENT PRECAUTIONS:

Do not discharge into drains, water courses or onto the ground.

**METHODS AND MATERIAL FOR**

**CONTAINMENT AND CLEANING UP:**

- METHODS FOR CONTAINMENT:

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

- METHODS FOR CLEANING UP:

Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labelled containers. Take precautionary measures against static discharges.

## **7: HANDLING AND STORAGE**

USAGE PRECAUTIONS:

Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapours/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

OCCUPATIONAL HYGIENE:

Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke.

STORAGE PRECAUTIONS:

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep

containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labelled containers

## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### CONTROL PARAMETERS:

	CAMPHENE FCC	ALPHA-PINENE	TERPINOLENE	BETA-PINENE
	79-92-5	80-56-8	586-62-9	127-91-3
<b>EU</b>	-	-	-	-
<b>UK</b>	-	-	-	-
<b>France</b>	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>
<b>Spain</b>		TWA: 20 ppm TWA: 113 mg/m <sup>3</sup>		TWA: 20 ppm TWA: 113 mg/m <sup>3</sup>
<b>Germany</b>	-	-	-	-
<b>Italy</b>	-	-	-	-
<b>Portugal</b>	-	TWA: 20 ppm	-	TWA: 20 ppm
<b>Netherlands</b>	-	-	-	-
<b>Finland</b>	-	-	-	-
<b>Denmark</b>	-	-	-	-
<b>Austria</b>	-	-	-	-
<b>Switzerland</b>	-	-	-	-
<b>Poland</b>	-	-	-	-
<b>Norway</b>	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> Skin STEL: 25 ppm STEL: 140 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 25 ppm STEL: 140 mg/m <sup>3</sup>
<b>Ireland</b>	-	-	-	-

### PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS  
ENGINEERING MEASURES  
RESPIRATORY EQUIPMENT

HAND PROTECTION  
EYE PROTECTION  
OTHER PROTECTION  
HYGIENE MEASURES

Provide eyewash station and safety showers.  
Provide adequate ventilation, especially in confined areas.  
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.  
Wear protective nitrile rubber gloves.  
Wear safety glasses with side shields (or goggles).  
Provide eyewash station and safety showers.  
Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.

PERSONAL PROTECTION	Avoid inhalation and contact with skin and eyes.
SKIN PROTECTION	Suitable protective clothing. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate. Antistatic footwear. Gloves made of plastic or rubber.
ENVIRONMENTAL EXPOSURE CONTROLS	Avoid discharging into drainage water.

## **9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	Mobile liquid.
COLOUR:	Yellow to yellow brown.
ODOUR:	Characteristic.
RELATIVE DENSITY:	Approx. 0.876 @ 20°C
FLASH POINT (°C):	66°C
REFRACTIVE INDEX:	Approx. 1.487 @ 20°C
MELTING POINT (°C):	No additional data available.
BOILING POINT (°C):	No additional data available.
VAPOUR PRESSURE:	0.01
SOLUBILITY IN WATER @20°C:	Insoluble in water.
AUTO-IGNITION TEMPERATURE (°C):	No additional data available.

## **10: STABILITY AND REACTIVITY**

REACTIVITY:	No additional data available.
CHEMICAL STABILITY:	Stable under normal temperature conditions and recommended use
<b>EXPLOSION DATA:</b>	
- SENSITIVITY TO MECHANICAL IMPACT:	None.
- SENSITIVITY TO STATIC DISCHARGE:	None.
POSSIBLE HAZARDOUS REACTIONS:	None under normal processing.
CONDITIONS TO AVOID:	Extremes of temperature and direct sunlight. Heat, flames and sparks.
INCOMPATIBLE MATERIALS:	No additional data available.
HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal use conditions.

## **11: TOXICOLOGICAL INFORMATION**

<b>ACUTE TOXICITY</b>	Not classified		
ATE mix (oral)	Calc ATE - 2815.79000		
<b>Botanical Species Oral</b>	<b>LD50 Dermal</b>	<b>LD50 Inhalation</b>	<b>LC50</b>
GINGER OIL F.C.C.	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	= 17100 mg/m <sup>3</sup> (Rat) 1 h
CAMPHENE FCC	> 5 g/kg (Rat)	> 2500 mg/kg (Rabbit)	
ALPHA-PINENE	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	
EUCALYPTOL	= 2480 mg/kg (Rat)		
GERANIOL	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	
TERPINOLENE	= 4390 mg/kg (Rat)		
BETA-PINENE	= 4700 mg/kg (Rat)		
GERANIAL	= 500 mg/kg (Rat)		
SKIN CORROSION / IRRITATION	Irritating to skin.		
SERIOUS EYE DAMAGE / IRRITATION	Causes serious eye irritation.		
RESPIRATORY OR SKIN SENSITISATION	May cause an allergic skin reaction.		
GERM CELL MUTAGENICITY	Not classified.		
CARCINOGENICITY	Not classified.		
REPRODUCTIVE TOXICITY	This product does not contain any known or suspected reproductive hazards above the threshold value.		
STOT-SINGLE EXPOSURE	Not classified.		
STOT-REPEATED EXPOSURE	Not classified.		
ASPIRATION HAZARD	May be fatal if swallowed and enters airways.		
PHOTO-TOXICITY	No additional data available.		
OTHER INFORMATION	No additional data available.		

## **12: ECOLOGICAL INFORMATION**

ECOTOXICITY:	Very toxic to aquatic life with long lasting effects
PERSISTENCE AND DEGRADABILITY:	No additional data available.
BIOACCUMULATIVE POTENTIAL:	Alpha-Pinene partition co-efficient 4.1
MOBILITY IN SOIL:	No additional data available.
RESULTS OF PBT AND vPvB ASSESSMENT:	No additional data available.
PRECAUTIONS:	No additional data available.

## **13: DISPOSAL CONSIDERATIONS**

WASTE FROM RESIDUES/UNUSED PRODUCTS:	Disposal should be in accordance with applicable regional, national and local laws and regulations.
CONTAMINATED PACKAGING:	Do not reuse container. Improper disposal or reuse of this container may be dangerous and illegal.

#### **14: TRANSPORT INFORMATION**

UN No. ROAD: 3082  
UN No. SEA: 3082  
UN No. AIR: 3082  
PROPER SHIPPING NAME: Environmentally Hazardous Substance, liquid N.O.S.

##### **TRANSPORT HAZARD CLASS(ES):**

- ADR/RID/ADN CLASS: 9
- IMDG CLASS: 9
- ICAO CLASS: 9



##### **PACKING GROUP:**

- ADR/RID/ADN PACKING GROUP: III
- IMDG PACKING GROUP: III
- ICAO PACKING GROUP: III

ENVIRONMENTAL HAZARDS: Environmentally Hazardous Substance/Marine Pollutant.



SPECIAL PRECAUTIONS FOR USER: Tunnel restriction code (E)  
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: No additional data available.

#### **15: REGULATORY INFORMATION**

STATUTORY INSTRUMENTS: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

EU LEGISLATION: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

GUIDANCE: Workplace Exposure Limits EH40. CHIP for everyone HSG (108).



## **16: OTHER INFORMATION**

### HAZARD AND/OR PRECAUTIONARY STATEMENTS IN FULL

H226 - Flammable liquid and vapour.  
H228 - Flammable solid.  
H402 - Harmful to aquatic life.  
H302 - Harmful if swallowed.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H319 - Causes serious eye irritation.  
H313 - May be harmful in contact with skin.  
H227 - Combustible liquid.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

### Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.  
Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.