

MATERIAL SAFETY DATA SHEET

Product: Ginger Essential Oil
Version: 1

Section 1: Identification of the substance/mixture and of the supplier

1.1 Product Identifier

Product Name	Ginger Essential Oil				
Biological Definition	The volatile essential oil obtained by steam distillation of the dried root ginger plant <i>Zingiber officinale</i> Rosc. (Fam. <i>Zingiberaceae</i>) grown & distilled in China.				
INCI Name	Zingiber officinale root oil.				
Synonyms & Trade Names	Ginger oil				
FEMA No	2522	FDA No	§182.20	CoE No	489n
CAS No	8007-08-7	EC No	283-634-2	Einecs No	283-634-2

1.2 Details of the supplier of the safety data sheet

1.3 Emergency telephone number

Company Identification	Fresholi Helen Williams 494 Groby Road Leicester LE3 9QD +44 (0) 116 299 6006 email: helen@fresholi.co.uk	Emergency Contact: Helen Williams Tel +44 (0) 116 299 6006
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Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC)	Xn Harmful: N Dangerous for the environment R(43-51/53-65); S(24-37-62)
Classification (EU 1272/2008)	UN-GHS: FL 4, AH 1, SCI 3, SS 1, EH A2,C2 EU-CLP: AH 1, SS 1, EH A2 C2

2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008

GHS Label:	  
Signal word:	None
Contains	1,8-Cineole, alpha-farnescene, alpha-pinene, AR-curcumene, alpha-zingiberene, beta-bisabolene, beta-pinene, beta-sesquiphellandrene, camphene, limonene, myrcene, citral.
Hazard Statements:	H304 May be fatal if swallowed and enters airways H317 May cause an allergic skin reaction H411 Toxic to aquatic life with long-lasting effects.
Precautionary Statements:	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 or doctor/physician. P303 + P352 IF ON SKIN: Wash with plenty of soap and water.
Supplementary Precautionary Statements:	None

Risk phrases and Safety phrases in full refer to *Section 16 – Other Information*

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2.3 Other hazards

Adverse physio-chemical properties	Combustible but will not self-ignite
Adverse effects on human health	May cause sensitisation to skin and eyes.

SECTION 3: Composition/information on ingredients

3.1 Substances

2% Cineols ATO 5(2500), ATD NC, ATI ND, SCI 3 2% Limonene SCI 2, SS 1, EH A1,C1
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3.2 Mixtures

EU INCI	US INCI
N/A	N/A

SECTION 4: First-aid measures

4.1 Description of first aid measures

General Information	See categories below
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

4.2 Most important symptoms and effects, both acute and delayed

N/A

4.3 Indication of any immediate medical attention and special treatment needed

N/A

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use CO2, Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
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5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for fire fighters:

Wear protective clothing. Avoid inhalation of vapours. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.
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SECTION 6: Accidental release measures

6.1 Personal precautions:

Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.

6.2 Environmental precautions:

Do not discharge directly into drains or soil. Keep away from surface and ground water.

6.3 Methods and material for containment and cleaning up:

Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.

6.4 Reference to other sections:

Please refer to Section 8 - Exposure controls/personal protection for further information on personal precautions.
Please refer to Section 13 - Disposal Considerations for further information on waste treatment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Apply good manufacturing practice and industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

7.2 Conditions for safe storage, including any incompatibilities:

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

7.3 Specific end use(s):



N/A

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No special measures required

8.2 Exposure Controls

Eye Protection		Use Safety Glasses.
Hand protection		Avoid all skin contact. Use chemically resistant gloves if required.
Respiratory Equipment	Avoid breathing product vapour. Apply local ventilation where possible.	
Hygiene Measures	Wash hands with soap and water after handling. Do not eat, drink or smoke whilst handling.	
Engineering Measures	Store in tightly closed original container, in a cool, dry and ventilated area away from heat source and protected from light. Keep air contact to a minimum.	

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Mobile Liquid
Colour	Light yellow to yellow-brown
Odour	Characteristic, spicy, of ginger root.
Relative Density	0.870 to 0.882 @ 20 C
Flash point:	67 C c/c
Refractive Index	1.480 to 1.494 @ 20 C

Melting Point	Not available
Boiling Point	254 C @ 760mm Hg
Vapour Pressure	Not available
Solubility in water @ 20° C	1g dissolves in 160 to 300g water
Auto-ignition Temperature	Not available

9.2 Other information:

N/A

SECTION 10: Stability and reactivity

10.1 Reactivity:

N/A

10.2 Chemical stability:

It presents no significant reactivity hazards, by itself or in contact with water.

10.3 Possibility of hazardous reactions:

N/A

10.4 Conditions to avoid:

Avoid storing for prolonged periods in hot areas and in containers pervious to direct light.

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products:

Liable to cause smoke and acrid fumes during combustion: carbon monoxide, carbon dioxide and other non-identified organic compounds may be formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	See below
LD50 (Oral):	Acute Dermal toxicity LD50 skn-rbt >5000.00 mg/kg Mosciano G. (1999) P&F 24(2), 49
LC50 (Dermal):	Acute Oral toxicity LD50 orl-rat >5000.00 mg/kg Mosciano G. (1999) P&F 24(2), 49
Skin corrosion / irritation:	Not determined. Listed as Category 3 according to GHS & CLP.
Serious eye damage/irritation:	Potential exists for serious eye damage. Wear eye protection when handling.
Respiratory or skin sensitization:	Skin sensitizer Category 1 according to GHS % CLP.
Germ cell mutagenicity:	Not listed as mutagenic by IARC, EPA, Calif. Prop 65 etc.
Carcinogenicity:	Not listed as carcinogenic by IARC, EPA, Calif. Prop 65 etc..
Reproductive toxicity:	Not listed as reprotoxic by IARC, EPA, Calif. Prop 65 etc.
STOT-single exposure:	No available data
STOT-repeated exposure:	No available data
Aspiration hazard:	Inhalation toxicity: not determined. Listed as Category 1 according to GHS & CLP.
Other information:	None

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SECTION 12: Ecological information

12.1 Toxicity:	No weight-of-evidence data available.
12.2 Persistence and degradability:	Not determined
12.3 Bio-accumulative potential:	Not determined
12.4 Mobility in soil:	Not determined
12.5 Results of PBT and vPvB assessment:	Data not available.
12.6 Other adverse effects:	N/A

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

SECTION 14: Transport information

Warning Icon	None allocated.
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, liquid nos (contains ginger oil).
UN No. Road	None allocated.
ADR Class	None allocated.
Hazard No (ADR):	None allocated.
Hazchem Code:	None allocated.
UN No. SEA	None allocated.
IMDG Class	None allocated.
IMDG Pack Gr.	None allocated.
EMS	None allocated.
UN No. AIR	None allocated.
Air Class	None allocated.
Air Pack Gr.	None allocated.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instrument	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

15.2 Chemical Safety Assessment

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

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SECTION 16: Other information

Allergens:	Cosmetics Directive 7th Amendment: Restrictions may apply. A possible source of citral, limonene and linalool, listed as sensitisers. Check maximum usage levels for skin care products
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Training instructions: Refer to possible hazard before use of this product

Abbreviations and acronyms:

Abbreviation	Meaning
ADN	International Carriage of Dangerous Goods by Inland Waterways
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstract Service
c/c	Closed Cup
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
ICAO	International Civil Aviation Organization
IMDR	International Maritime Code for Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
MSDS	Material Safety Data Sheet
N/A	Not Available
RID	International Carriage of Dangerous Goods by Rail
STOT	Specific Target Organ Toxicity
Trem Card	Transport Emergency Card

Risk Phrases in Full:	R43 May cause sensitisation by skin contact. R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment R65 Harmful: may cause lung damage if swallowed.
Hazard Statements in Full:	H304 May be fatal if swallowed and enters airways H317 May cause an allergic skin reaction H411 Toxic to aquatic life with long-lasting effects.

Complies with REACH guidance for SDS as circulated by ECHA 2011.

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.