



Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Ginger Oil			
Biological Definition		Zingiber Officinale Oil is the volatile oil obtained from the dried rhizomes of the Ginger, <i>Zingiber officinale</i> L., <i>Zingiberaceae</i>			
INCI Name		Zingiber Officinale Root Oil			
Synonyms & Trade Names		-			
CAS-No	8007-08-7	EC No.	-	EINECS No.	-
1.2 Relative identified uses of the substance or mixture and uses advised against					
Suitable for cosmetic, flavour, fragrance and professional use only.					
1.3 Details of the supplier of the safety data sheet					
1.4 Emergency Tel. No.					

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
The full text for all hazard statements displayed in Section 16.	
Classification (EC 1272/2008)	
Physical hazards:	Not classified
Health hazards:	Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1B H317, Eye Irrit. 2 – H319
Environmental hazards:	Aquatic Chronic 2 - H411
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS08	GHS07
GHS09	
Signal Word	Danger
Contains	beta-Bisabolene, alpha-Pinene
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. H411 Toxic to aquatic life with long lasting effects.	
Precautionary Statements	
P261 Avoid breathing vapours/spray. P273 Avoid release to the environment.	



P280 Wear protective gloves and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P391 Collect spillage.
P501 Dispose of contents in accordance with local, state or national legislation.

Supplementary Precautionary Statements

P264 Wash hands thoroughly after handling.

2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

≤ 10.0% beta-Bisabolene CAS No: 495-61-4 EC No: 610-461-5

Classification (EC 1272/2008) Asp. Tox. 1- H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317

≤ 10.0% 1,8-Cineol CAS No: 470-82-6 EC No: 207-431-5

Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Sens. 1B - H317

≤ 8.0% Camphene CAS No: 79-92-5 EC No: 201-234-8

Classification (EC 1272/2008) Flam. Sol. 1 - H228, Eye Irrit. 2 - H319, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

≤ 5.0% alpha-Pinene CAS No: 80-56-8 EC No: 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

≤ 2.8% Citral CAS No: 5392-40-5 EC No: 226-394-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319

≤ 2.0% d-Limonene CAS No: 5989-27-5 EC No: 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

≤ 1.0% beta-Pinene CAS No: 127-91-3 EC No: 204-872-5

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



≤ 0.6% Linalool CAS No: 78-70-6 EC No: 201-134-4

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 – H319

≤ 0.5% Geraniol CAS No: 106-24-1 EC No: 203-377-1

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Dam. 1 - H318

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.

4.2 Most important symptoms and effects, both acute and delayed

No additional data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: carbon dioxide, dry chemical, foam.

Unsuitable extinguishing media: do not use water jet as an extinguisher, as this may scatter and spread fire.

5.2 Special hazards arising from the product

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

Thermal decomposition or combustion products may include the following substances:

Carbon dioxide (CO₂), Carbon monoxide (CO), other toxic gases.

Containers close to fire should be removed or cooled with water.

5.3 Advice for firefighters

Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.

6.2 Environmental Precautions

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

6.3 Methods and material for containment and cleaning up.

Absorb with liquid binding material e.g. sand, diatomaceous earth, vermiculite.



Collect in closed and suitable containers for disposal in accordance with local, state or national legislation. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent.

6.4 Reference to other sections

Refer to information in Sections 7, 8 and 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated area, away from potential sources of ignition and protected from light.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional data available.

8.2 Exposure controls

Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Hand Protection	Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Eye Protection	Avoid contact with eyes. Wear safety goggles in accordance with standard EN166.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Do not eat, drink or smoke during use. Remove and wash contaminated clothing before re-using.
Personal Protection	Use of chemical resistant clothing is recommended when handling.
Skin Protection	Wear appropriate protective clothing to prevent skin contact. Work clothing worn by personnel should be laundered regularly. After contact with the product, all parts of the body that have been exposed must be washed thoroughly.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

**09. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties	
Appearance	Clear liquid, light yellow to yellow brown.
Colour	Light yellow to yellow brown.
Odour	Characteristic - spicy of ginger root.
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	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.
9.2 Other information	
No additional data available.	

10. STABILITY AND REACTIVITY

10.1 Reactivity	
Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.	
10.2 Chemical stability	
Stable under the recommended handling and storage conditions in section 7.	
10.3 Possible hazardous reactions	
Not expected under normal conditions of use.	
10.4 Conditions to Avoid	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Prevent storing the product in open containers for long periods so as to prevent product deterioration.	
10.5 Incompatible materials	
Avoid contact with strong acids, alkalis or oxidising agents.	
10.6 Hazardous Decomposition Products	
Not expected under normal temperature conditions and recommended use. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Not classified.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Skin - May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
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

12.1 Toxicity
Toxic to aquatic life with long lasting effects.
12.2 Persistence & degradability
No additional data available.
12.3 Bioaccumulation Potential
No additional data available.
12.4 Mobility in soil
No additional data available.
12.5 Results of PBT and vPvB Assessment
No additional data available.
12.6 Other adverse effects
No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Do not allow entry into drains or waterways. Waste: Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste. Do not dispose of waste into the environment. Soiled packaging: Empty container completely. Keep label(s) on container. Dispose of via a certified disposal contractor.

14. TRANSPORT INFORMATION

14.1	UN number	
	UN No. Road	3082
	UN No. SEA	3082
	UN No. AIR	3082
14.2	UN proper shipping name	
	ENVIRONMENTALLY HAZARD SUBSTANCE LIQUID, N.O.S	
14.3	Transport hazard class(es)	
	ADR/RID ADR/RID– Class 9 ADR Classification Code – M6 Special provisions – 274 335 375 601 Limited quantities – 5L Expected quantities – E1 Emergency Action Code – •3Z	

**IMDG**

IMDG – Class 9

Special Provisions – 274 335 375 601

Limited quantities – 5L

Expected quantities – E1

IMDG EMS – F-A, S-F

Stowage and Handling – Category A

ICAO/IATA

ICAO/IATA– Class 9

IATA proper shipping name - ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

Expected quantities – E1

Transport Label:

**14.4 Packing group**

ADR/RID Packing group: III

IMDG Packing group: III

ICAO Packing group: III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant.

**14.6 Special precautions for user**

See sections 6 – 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Statutory Instruments

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

Guidance Notes

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

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.

**15.2 Chemical safety assessment**

No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226 Flammable liquid and vapour. H228 Flammable solid. 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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. .
Other Information	None.
Revision Date	08/09/2020
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Rev No/Repl, SDS Generated	05, replaces 04

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