

AKÖMA™

FROM THE HEART

MATERIAL SAFETY DATA SHEET

1 --- Identification of Product and Supplier

<u>Product Name:</u>	Ginger Essential Oil
<u>Biological Definition:</u>	Zingiber Officinale Oil is the volatile oil obtained from the dried rhizomes of the Ginger, Zingiber officinale L., Zingiberaceae
<u>INCI Name:</u>	Zingiber Officinale Root Oil
<u>Supplier:</u>	Akoma International (UK) LTD Unit 9A Sawley Park Nottingham Road Derby DE21 6AS Tel: +44 (0) 1332 613 967
<u>Emergency Contact:</u>	Mr. Wynn Mensah – Tel: 01332 613 967

2 --- Hazards identification:

Classification of the substance or mixture

Classification (1999/45)	The Full Text for all Hazard Statements displayed in Section 16. Physical and Chemical Hazards: Not classified.
Classification (EC 1272/2008)	Human health: Skin Sens. 1 - H317; Asp. Tox. 1 - H304 Environment: Aquatic Chronic 2 - H411

Label Elements

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



Signal Word	Warning.
Contains	b-bisabolene, Alpha pinene, Dipentene, Terpinolene 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.
Hazard Statements	H411 Toxic to aquatic life with long lasting effects

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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.
P273 Avoid release to the environment.
P501 Dispose of contents/container to an approved waste disposal plant.

Precautionary Statements

Supplementary Precautionary Statements -

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

3 --- Composition and information on ingredients:

b-bisabolene **≤ 10.0%**

CAS-NO: 495-61-4, EC No: -
Classification (EC 1272/2008): Skin Sens. 1 (H317) (EFFA), Skin Irrit. 2 (315) (EFFA), Asp. Tox. 1 (H304) (EFFA)

Camphene **≤ 10.0%**

CAS No: 79-92-5, EC No: 201-234-8
Classification (EC 1272/2008): Aquatic Acute 1 (H400) (EFFA), Eye Irrit. 2 (H319) (EFFA), Skin Irrit. 3 (H316) (EFFA), Aquatic Chronic 1 (H410) (EFFA), Flam. Sol 2 (H228) (EFFA)

Alpha pinene **≤ 10.0%**

CAS-No: 80-56-8, EC No: 201-291-9
Classification (EC 1272/2008): Acute Aquatic 1 (H400) (EFFA), Chronic Aquatic 1(H410) (EFFA), Skin Sens. 1 (H317) (EFFA), Skin Irrit. 2(H315) (EFFA), Asp. Tox. 1 (H304) (EFFA), Acute Tox. 5(H303)(EFFA), Flam. Liq. 3 (H226)(EFFA).

Dipentene **≤ 10.0%**

CAS-No: 138-86-3 EC No: 205-341-0
Classification (EC 1272/2008): Aquatic Acute 1 (H400) (EFFA), Skin Sens. 1 (H317) (EFFA), Skin Irrit. 2 (315) (EFFA), Asp. Tox. 1 (H304) (EFFA), Aquatic Chronic 1 (H410) (EFFA), Flam. Liq. 3 (H226)(EFFA)

Eucalytpol **≤ 10.0%**

CAS-No: 470-82-6 EC No: 207-431-5
Classification (EC 1272/2008): Skin Irrit. 3 (H316) (EFFA), Acute Tox. 5 (H303)(EFFA), Flam. Liq. 3 (H226)(EFFA), Skin Sens. 1 (H317) (EFFA)

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Geraniol **≤ 1.0%**

CAS-No: 106-24-1,

EC No: 203-377-1

Classification (EC 1272/2008): Acute Aquatic 3 (H402) (EFFA), Acute Toxicity 5 (H303) (EFFA), Eye Damage 1 (H318)(EFFA), Skin Irritation 2 (H315) (EFFA), Skin Sensitization 1 (H317) (EFFA)

Terpinolene **≤ 1.0%**

CAS-No: 586-62-9,

EC No: 209-578-0

Classification (EC 1272/2008): Aquatic Acute 1 (H400) (EFFA), Aquatic Chronic 1(H410) (EFFA), Asp. Tox. 1 (H304) (EFFA), Acute Tox. 5(H303)(EFFA), Flam. Liq. 4 (H227)(EFFA), Skin Irrit. 3 (H316)(EFFA)

Beta Pinene **≤ 1.0%**

CAS-No: 127-91-3,

EC No: 204-872-5

Classification (EC 1272/2008): Acute Aquatic 1 (H400) (EFFA), Chronic Aquatic 1(H410) (EFFA), Skin Sens. 1 (H317)(EFFA), Skin Irrit. 2(H315) (EFFA), Asp. Tox. 1 (H304) (EFFA), Flam. Liq. 3 (H226)(EFFA)

Neral **≤ 1.0%**

CAS-No: 106-26-3,

EC No: 203-379-2

Classification (EC 1272/2008): Aquatic Acute 2 (H401) (EFFA), Skin Sens. 1 (H317) (EFFA), Eye Irrit. 2 (H319) (EFFA), Skin Irrit. 2 (H315) (EFFA), Acute Tox. 5 (H303) (EFFA), Acute Tox. 5 (H313) (EFFA), Flam. Liq. 4 (H227)(EFFA)

Geranial **≤ 1.0%**

CAS-No: 141-27-5,

EC No: 205-476-5

Classification (EC 1272/2008): Aquatic Acute 2 (H401) (EFFA), Skin Sens. 1 (H317) (EFFA), Eye Irrit. 1 (H319) (EFFA), Skin Irrit. 2 (H315) (EFFA), Acute Tox. 5 (H303) (EFFA), Acute Tox. 5 (H313)(EFFA), Flam. Liq. 4 (H227)(EFFA)

4 --- First aid measures:

General Information

-

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.

5 --- Fire - fighting measures:

<u>Extinguishing Media:</u>	Use Carbon dioxide CO2, dry chemical, or foam.
<u>Special Fire Fighting Procedures:</u>	-
<u>Specific Hazards:</u>	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.
<u>Protective Measures in Fire:</u>	Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

6 --- Accidental release measures:

<u>Personal Precautions:</u>	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.
<u>Environmental Precautions:</u>	Do not discharge into drains, water courses or onto the ground.
<u>Spill Clean Up Methods:</u>	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:

<u>Usage Precautions:</u>	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). 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.
<u>Storage Precautions:</u>	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, wellventilated place. Keep away from heat. Keep in properly labelled containers.

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8 --- Exposure controls and personal protection:

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

9 --- Physical data and chemical properties:

Appearance	Mobile liquid.
Colour	Yellow to yellow brown.
Odour	Pungent, Characteristic of Garlic
Relative Density	0.870 – 0.882
Flash Point (°C)	66°C
Refractive Index	1.480 – 1.494
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:

<u>Stability:</u>	Stable under normal temperature conditions and recommended use.
	Explosion data
	Sensitivity to Mechanical Impact None.
	Sensitivity to Static Discharge None.
<u>Conditions to Avoid:</u>	Extremes of temperature and direct sunlight. Heat, flames and sparks.
<u>Materials to Avoid:</u>	No additional data available.
<u>Hazardous Decomposition Products:</u>	None under normal use conditions

11 --- Toxicological Information:

<u>Acute Toxicity:</u>	The following values are calculated based on chapter 3.1 of the GHS document
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ATEmix (oral) 3,747.00
ATEmix (dermal) 3,797.00

<u>Skin corrosion / irritation:</u>	Irritating to skin.
<u>Serious eye damage / irritation:</u>	Causes severe eye irritation.
<u>Respiratory or skin sensitisation:</u>	May cause sensitization by skin contact
<u>Germ Cell Mutagenicity:</u>	None known
<u>Carcinogenicity:</u>	None known
<u>Reproductive toxicity:</u>	This product does not contain any known or suspected reproductive hazards above the threshold value.
<u>STOT-single exposure:</u>	Not classified.
<u>STOT-repeated exposure:</u>	Not classified.
<u>Aspiration hazard:</u>	May be fatal if swallowed and enters airways.
<u>Photo-toxicity:</u>	No additional data available
<u>Other Information:</u>	No additional data available

12 --- Ecological Information:

<u>Ecotoxicity:</u>	Toxic to aquatic life with long lasting effects.	
	CAMPHENE FCC	
	Algae/aquatic plants	1000: 72 h Desmodemus subspicatus mg/L EC50
	Fish	0.72: 96 h Brachydanio rerio mg/L. LC50 flow-through 150: 96 h
	Crustacea	Brachydanio rerio mg/L LC50 static 22: 48 h Daphnia magna mg/L EC50
	ALPHA-PINENE	
	Algae/aquatic plants	-
	Fish	0.28: 96 h Pimephales promelas mg/L LC50 static
	Crustacea	41: 48 h Daphnia magna mg/L LC50
	EUCALYPTOL	
	Algae/aquatic plants	-
	Fish	95.4 - 109: 96 h Pimephales promelas mg/L LC50
	flow - through	
	Crustacea	-

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<u>Mobility:</u>	No additional data available.
<u>Persistence & Biodegradability:</u>	No additional data available.
<u>Bioaccumulation Potential:</u>	Alpha Pinene partition co-efficient 4.1
<u>PBT Assessment Results:</u>	No additional data available.
<u>Precautions:</u>	No additional data available.

13 --- Disposal Considerations :

<u>Disposal Methods:</u>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
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14 --- Stability and Reactivity:



Warning Icon

Proper Shipping Name Environmentally Hazardous Substance, liquid n.o.s.

UN No. Road 3082

ADR Class 9

Hazard No (ADR) No additional data

Hazchem Code No additional data

UN No. SEA 3082

IMDG Class 9 IMDG Pack Gr. III

EMS -

UN No. AIR 3082

Air Class 9

15 ---Regulatory Information :

EU Directives 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

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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.

Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).
Approved Code of Practice	No additional data
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG(108)

16 ---Other Information :

Rev No/Repl, SDS Generated	1
Risk Phrases in Full	-
Hazard Statements in Full H402	- Harmful to aquatic life
H303	- May be harmful if swallowed
H318	- Causes serious eye damage
H315	- Causes skin irritation
H317	- May cause an allergic skin reaction
H401	- Toxic to aquatic life
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
H304	- May be fatal if swallowed and enters airways
H226	- Flammable liquid and vapour
H316	- Causes mild skin irritation
H228	- Flammable solid
Other Information	-

Q.C. REQUIREMENTS

In---line with general product specification. Always satisfy suitability for specific application.

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 it's' 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.

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