

AKÖMA™

FROM THE HEART

MATERIAL SAFETY DATA SHEET

1 - Identification of Product and Supplier

Product Name:	Basil Essential Oil, Methyl Chavicol Type				
Biological Definition:	The volatile oil obtained by steam distillation of the flowering tops or entire herb of <i>Ocimum basilicum</i> L. var.				
INCI Name:	methyl chavicol.				
Synonyms & Trade Names:	Ocimum basilicum oil.				
Internal Product Code	R00074				
FEMA No.	2119	FDA No.	182.20	CoE No.	308
CAS-No	8015-73-4	EC No.	283-900-8	EINECS No.	283-900-8
Supplier:	Akoma International (UK) LTD Unit 9A Sawley Park Nottingham Road Derby DE21 6AS Tel: +44 (0) 1332 613 967				
Emergency Contact:	Mr. Wynn Mensah – Tel: 01332 613 967				

2 - Hazards identification:

2.1 Classification of the substance or mixture

Classification (67/548/EEC)	Xn Harmful R22-40-43-52/53-68, S24-36/37.
Classification (EU 1272/2008)	UN-GHS: FL 4, ATO 41300), SCI 3, SS 1, CAR 2, MUT 2, EH A3,C3 EU-CLP: ATO 4, SS 1, CAR 2, MUT 2.

2.2 Label elements

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

GHS Label:



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Basil Essential Oil, Methyl Chavicol Type - MSDS

Signal word:	Danger
Contains	Methyl chavicol, methyl eugenol, limonene, linalool.
Hazard Statements:	H302 Harmful if swallowed H317 May cause an allergic skin reaction H351 Suspected of causing cancer H412 Harmful to aquatic life with long-lasting effects.
Precautionary Statements:	P261 Avoid breathing fumes P280 Wear protective gloves and eye protection P281 Use personal protective equipment as required
Supplementary Precautionary Statements:	P264 Wash hands thoroughly after handling P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace.

Label in accordance with Directive 67/548/EEC

Risk phrases and Safety phrases in full refer to Section 16

– Other Information

2.3 Other hazards

Adverse physio-chemical properties Combustible but will not self-ignite

Adverse effects on human health Suspected carcinogen & mutagen category 2 under GHS

3 - Composition and information on ingredients:

3.1 Substances

85% Methyl Chavicol (estragole) FL 4, ATO 4 (1230), SCI 3, SS 1, CAR 2, MUT 2

5% Methyl eugenol (eugenyl methyl ether) ATO 4(810), CAR 2, MUT 2, EH A2

2% 1,8-Cineole (eucalyptol) FL 3, ATO 5(2480), SCI 3

1% Limonene FL 3, AH 1, SCI 2, SS 1, EH A1,C1

1% Linalool FL 4, ATO 5(3000), EDI 2A, EH A3

3.2 Mixtures

EU INCI

US INCI

N/A

N/A

4 - First aid measures:

4.1 Description of first aid measures

General Information See categories below

Eye Contact Flush with plenty of water and seek medical advice if necessary.

Ingestion Wash mouth out with water and obtain medical advice immediately.

Inhalation Remove from exposure area to fresh air. Contact a doctor if necessary

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.

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

5 - Fire - Fighting 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.

5.2 Special hazards arising from the substance or mixture.

Wear protective clothing. Avoid inhalation of vapours.

5.3 Advice for fire-fighters

Closed containers may build up pressure when exposed to heat. Cool with water spray.

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 References 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.

7 - Handling and storage:

7.1 Precautions for safe handling

Remove all sources of ignition. Avoid skin and eye contact. Ensure adequate ventilation of working area.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers away from ignition sources and in a cool place.

7.3 Specific end use(s)

N/A

8 - Exposure controls and personal protection:

8.1 Control Parameters

No special measures required.

8.2 Exposure Controls

Eye protection



Use approved safety goggles or face shield with side shields.

Hand protection



Wear chemically resistant gloves.

Respiratory Equipment

Hygiene Measures

Not generally required except in poorly ventilated areas.

Wash hands and exposed areas routinely before breaks and after work period

Engineering Measures

Maintain adequate ventilation of working area.

9 - Physical data and chemical properties:

9.1 Information on basic physical and chemical properties

Appearance	Colour Light yellow to yellow-brown, Mobile liquid
Odour	Characteristic; recognisably of basil
Relative Density	0.900 to 0.973 @ 20°C
Flash Point (°C)	75 c/c
Refractive Index	1.490 – 1.530 @20°C
Melting Point (°C)	N/A
Boiling Point (°C)	213.0 to 215.0 @760mm Hg
Vapour Pressure	N/A
Solubility in Water	N/A
@20°C	
Auto-ignition temperature (°C)	N/A

9.2 Other information

N/A

10 - Stability and Reactivity:

10.1 Reactivity

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

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

Reacts with oxidants.

10.4 Conditions to avoid

Keep away from sources of ignition such as heat sources, open flames and sunlight.

Avoid high temperature near flashpoint.

10.5 Incompatible materials

Highly reactive chemical materials as consequences may not be predictable.

10.6 Hazardous decomposition products

Not determined.

11 - Toxicological information:

11.1 Information on toxicological effects.

Acute toxicity:	High estragole (>10%) containing basil oil.
LD50 (Oral):	Acute oral LD50 : 1.4g/Kg FCT (1973) 11, 867
LC50 (Dermal):	Acute toxicity oral under CLP: category 4
Skin corrosion / irritation:	Little available data. Data supporting IFRA's 44th Amendment (2009) includes a sheet on estragole which discusses difficulties in extrapolating animal laboratory studies to human risk, particularly from skin contact.
Serious eye damage/irritation:	Not determined.
Respiratory or skin sensitisation:	Skin sensitizer Category 1 according to GHS and CLP classifications resulting from EC1272/2008
Germ cell mutagenicity:	Mutagen Category 2 according to GHS and CLP classifications resulting from EC1272/2008
Carcinogenicity:	Methyl chavicol, present at up to 85% is a known heptacarcinogen: E.C. Miller et al. Cancer Res. 43, 1124 (1983). The oil itself is classified as a Carcinogen Category 2 according to GHS and CLP classifications resulting from EC1272/
Reproductive toxicity:	Not determined.
STOT-single exposure:	N/A
STOT-repeated exposure:	N/A
Aspiration hazard:	Not determined.
Other information:	N/A

12 - Ecological information:

12.1 Toxicity

Not determined.

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

Not available.

12.6 Other adverse effects N/A

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.

14 - Transport information:

Warning Icon	N/A
Proper Shipping Name	Not subject to ADR
UN No. Road	N/A
ADR Class	N/A
Hazard No (ADR)	N/A
Hazchem Code	N/A
UN No. SEA	N/A
IMDG Class	N/A
IMDG Pack Gr.	N/A
EMS	N/A
UN No. AIR	N/A
Air Class	N/A
Air Pack Gr.	N/A

15 - Regulatory information:

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 Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labeling 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.

Chemical safety assessment

An assessment has not been executed at this time.

16 - Other information:

Training instructions: Refer to possible hazard before use of this product.

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Basil Essential Oil, Methyl Chavicol Type - MSDS

Abbreviations and acronyms:

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

Risk Phrases in full:

R22 Harmful if swallowed
R40 Limited evidence of carcinogenic effect
R43 May cause sensitisation by skin contact
R52/53 harmful to aquatic organisms may cause long-term adverse effects in
aquatic environment.
R68 Possible risk of irreversible effects

Hazard Statements in full:

H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H351 Suspected of causing cancer
H412 Harmful to aquatic life with long-lasting effects.

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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