

# AKÖMA™

## FROM THE HEART

### MATERIAL SAFETY DATA SHEET

#### 1 - Identification of Product and Supplier

<u>Product Name:</u>	<b>Frankincense Essential Oil</b>
<u>Biological Definition:</u>	Boswellia Carterii Oil is the volatile oil obtained from the Boswellia carterii, Burseraceae.
<u>INCI Name:</u>	Boswellia Carterii Oil
<u>Supplier:</u>	<b>Akoma International (UK) LTD</b> 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:

##### 2.1 Classification of the substance or mixture

Classification (67/548/EEC) The full text for all hazard statements are displayed in Section 16.

Classification (EU 1272/2008) Flammable liquid, Category 3 (Flam. Liq. 3, H226).  
Skin irritation, Category 2 (Skin Irrit. 2, H315).  
Skin sensitisation, Category 1B (Skin Sens. 1B, H317).  
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

##### 2.2 Label elements

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

##### GHS Label:



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<b>Signal word:</b>	Warning
<b>Contains</b>	EC 201-291-9 ALPHA-PINENE EC 242-060-2 L-BETA-PINENE 601-029-00-7 (R)-P-MENTHA-1,8-DIENE
<b>Hazard Statements:</b>	H226 Flammable liquid & vapour H315 Causes skin irritation H317 May cause an allergic skin reaction H411 Toxic to aquatic life with long lasting effects.
<b>Precautionary Statements:</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P321 Specific treatment (see ... on this label). P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
<b>Supplementary Precautionary Statements:</b>	None.
<b>2.3 Other hazards</b>	
<b>Adverse physio-chemical properties</b>	No additional data available.
<b>Adverse effects on human health</b>	No additional data available.

### 3 - Composition and information on ingredients:

#### 3.1 Substances

25.0 - 50.0% ALPHA-PINENE CAS-No.: 80-56-8 EC No201-291-9 Classification (EC 1272/2008) GHS08, GHS02, GHS07, Dgr, Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1B, H317

10.0 - 25.0% L-BETA-PINENE CAS-No.: 18172-67-3 EC No: 242-060-2 Classification (EC 1272/2008) GHS08, GHS02, GHS07, Dgr, Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1B, H317

10.0 - 25.0% (R)-P-MENTHA-1,8-DIENE CAS-No.: 5989-27-5 EC No: 227-813-5 Classification (EC 1272/2008) GHS02, GHS07, GHS09, Wng, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1

10.0 - 25.0% PARA-CYMENE CAS-No.: 99-87-6 EC No: 202-796-7 Classification (EC 1272/2008) GHS08, GHS02, GHS09, Dgr, Asp. Tox. 1, H304, Flam. Liq. 3, H226, Aquatic Chronic 2, H411

2.5 - 10.0% BETA-CARYOPHYLLENE CAS-No.: 87-44-5 EC No: 201-746-1 Classification (EC 1272/2008) GHS08, Dgr, Asp. Tox. 1, H304

2.5 - 10.0% MYRCENE CAS-No.: 123-35-3 EC No: 204-622-5 Classification (EC 1272/2008) GHS08, GHS02, GHS07, Dgr, Asp. Tox. 1, H304, Eye Irrit. 2, H319, Flam. Liq. 3, H226, Skin Irrit. 2, H315

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### 3.2 Mixtures

EU INCI N/A  
US INCI N/A

Synonyms & Trade Names -

Internal Product Code R00172

CAS-No 89957-98-2 / 8050-98-2 EC No. 289-620-2 / 232474-1 EINECS No. 289-620-2 / 232-474-1

## 4 - First aid measures:

### 4.1 Description of first aid measures

General Information See categories below.

Inhalation Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air. Place unconscious person on the side in the recovery position and ensure breathing. Seek medical treatment in case of complaints.

Ingestion Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting. Seek medical attention immediately, showing the label. If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

Skin Contact Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Eye Contact Remove contact lenses. Immediately flush eyes with plenty of water by lifting eye lids for at least 20-30 minutes Seek immediate medical advice. Continue to rinse. Seek medical advice if irritation or discomfort persists.

### 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

No additional data available.

## 5 - Fire - Fighting measures:

### 5.1 Extinguishing Media

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires. Keep packages near the fire cool, to prevent pressurised containers from bursting. In the event of a fire, use:

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

Prevent the effluent of fire-fighting measures from entering drains or waterways. In the event of a fire, do not use:

- water jet

### 5.2 Special hazards arising from the substance or mixture.

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed: carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).

### 5.3 Advice for fire-fighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## 6 - Accidental release measures:

### 6.1 Personal precautions

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid any contact with the skin and eyes.

For first aid worker First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2 Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways. If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures. Use drums to dispose of collected waste in compliance with current regulations (see section 13).

### 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust). Send for disposal in a suitable container. Clean preferably with a detergent, do not use solvents. Dispose of the material collected according to 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

Requirements relating to storage premises apply to all facilities where the mixture is handled. Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

#### Precautions for safe handling

Always wash hands after handling. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas. Remove contaminated clothing and protective equipment before entering eating areas.

#### Fire prevention:

Handle in well-ventilated areas. Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air. Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged : always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel.

#### Recommended equipment and procedures:

For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures: No smoking, eating or drinking in areas where the mixture is used. Never open the packages under pressure.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry, well-ventilated place. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. Avoid accumulation of electrostatic charges. The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area. Packaging Always keep in packaging made of an identical material to the original.

#### 7.3 Specific end use(s)

No additional data available.

### 8 - Exposure controls and personal protection:

#### Control Parameters

Occupational exposure limits:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA	STEL	Ceiling	Definition	Criteria
80-56-8	20 ppm	-	-	-	-

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## Eye protection



Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles in accordance with standard EN166. Provide eyewash station.

## Hand Protection



Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol) Recommended properties:
- Impervious gloves in accordance with standard EN374

## Respiratory Equipment

Ensure adequate ventilation.

## Other Protection

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

## Skin protection

Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

## Hygiene Measures

Good personal hygiene practices are always advisable, especially when working with chemicals / oils.

## Engineering Measures

Ensure adequate ventilation.

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## 9 - Physical data and chemical properties:

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless to yellow
Odour	Characteristic
Relative Density	0.860 to 0.895 @ 20°C
Flash Point (°C)	N/A
Refractive Index @ 20°C	1.440 to 1.480 @ 20°C
Melting Point (°C)	N/A
Boiling Point (°C)	N/A
Vapour Pressure	N/A
Solubility in Water @20°C	N/A
Auto-ignition temperature (°C)	N/A

### 9.2 Other information

N/A

## 10 - Stability and Reactivity:

### 10.1 Reactivity

No additional data available.

### 10.2 Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3 Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

### 10.4 Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises. Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

### 10.5 Incompatible materials

No additional data available.

### 10.6 Hazardous decomposition products

The thermal decomposition may release/form: carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

## 11 - Toxicological information:

### 11.1 Information on toxicological effects.

Acute toxicity:	PARA-CYMENE (CAS: 99-87-6) Oral route : LD50 = 4750 mg/kg ALPHA-PINENE (CAS: 80-56-8) Oral route : LD50 = 3500 mg/kg
Skin corrosion / irritation:	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours. Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin. May cause an allergic reaction by skin contact.
Serious eye damage/irritation:	Splashes in the eyes may cause irritation and reversible damage.
Respiratory or skin sensitisation:	Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.
Germ cell mutagenicity:	No additional data available.
Carcinogenicity:	Monograph(s) from the IARC (International Agency for Research on Cancer): CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
Reproductive toxicity:	No additional data available.
STOT-single exposure:	No additional data available.
STOT-repeated exposure:	No additional data available.
Aspiration hazard:	No additional data available.
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.  
The product must not be allowed to run into drains or waterways.

### 12.2 Persistence and degradability

No additional data available.

### 12.3 Bio-accumulative 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

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

#### Waste treatment methods

Do not pour 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. Give to a certified disposal contractor.

## 14 - Transport information:

Warning



Proper Shipping Name	PERFUMERY PRODUCTS
UN No. Road	UN 1169
ADR Class	Class 3 Packaging Group III
Hazard No (ADR)	30
Hazchem Code	F1
UN No. SEA	UN 1169
IMDG Class	Class 3
IMDG Pack Gr.	Pk Gp III
EMS	F-E, S-D
UN No. AIR	UN 1169
Air Class	Class 3
Air Pack Gr.	Pk Gp III

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## 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 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.

## 16 - Other information:

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

### 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

Hazard and/or Precautionary Statements in full:

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

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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.

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

#### **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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