

AKÖMA™

FROM THE HEART

Material Safety Data Sheet

EU Regulation: 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1 Product Identification					
Product Name	EUCALYPTUS ESSENTIAL OIL (CITRIODORA)				
INCI Name	EUCALYPTUS MACULATA CITRIODORA				
Synonyms & Trade Names	-				
CAS-No	85203-56-1	EC No.	286-249-8	EINECS No.	286-249-8
1.2 Details of the supplier of the safety data sheet					
Company Address	Akoma International (UK) LTD Unit 9A Sawley Park Nottingham Road Derby DE21 6AS Tel: +44 (0) 1332 613 967				
Email	technical@akoma.biz				
1.3 Details of the supplier of the safety data sheet					
Emergency Contacts	Mr. Wynn Mensah – Tel: 01332 613 967				

SECTION 2: Hazards Identification	
2.1 Classification of the substance or mixture	
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 2 - H411
Human health	The product is irritating to eyes and skin.
Environmental	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
2.2 Label Elements	
EC number	286-249-8

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Pictogram	 
Signal Word	Warning.
Hazard statements	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 vapour/spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face 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. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose of contents/container in accordance with national regulations.
Contains	(+)-Citronellal, β -(+)-Citronellol, Alpha Pinene, (S)-p-mentha-1,8-diene, a terpinolene
2.3 Other Hazards	
SECTION 3: Composition of Ingredients	
3.1 Substances	
3.2 Mixtures	<p>70 - 85% (+)-Citronellal CAS number: 2385-77-5; EC number: 219-194-5 Classification Skin Irrit. 2 - H315; Skin Sens. 1B - H317; Aquatic Chronic 2 - H411</p> <p>4-10% β-(+)-Citronellol CAS number: 1117-61-9; EC number: 214-250-5 Classification Skin Irrit. 2 - H315; Skin Sens. 1B - H317; Aquatic Chronic 2 - H411</p> <p>3-15% Iso Pulegol CAS number: 89-79-2; EC number: 201-940-6 Classification Acute Tox. 4 - H302; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319</p> <p>0.01-3% Alpha Pinene CAS number: 80-56-8; EC number: 201-291-9 Classification Flam. Liq. 3 - H226; Skin Irrit. 2 - H315; Skin Sens. 1 - H317; Asp. Tox. 1 - H304</p> <p>0.01-7% Neo Iso Pulegol CAS number: 96612-21-4 Classification Acute Tox. 4 - H302; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319</p> <p><0.01-2% Beta Caryophyllene CAS number: 87-44-5; EC number: 201-746-1 Classification Asp. Tox. 1 - H304</p> <p><0.01-3% Citronellyl Acetate CAS number: 150-84-5; EC number: 205-775-0 Classification Skin Irrit. 2 - H315; Aquatic Chronic 2 - H411</p> <p><0.01-4% 6-Methyl-5-hepten-2-one CAS number: 110-93-0; EC number: 203-816-7 Classification Flam. Liq. 3 - H226</p>

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	<p><0.01-1% Cis-beta-Ocimene CAS number: 3338-55-4; EC number: 222-081-3 Classification Flam. Liq. 3 - H226; Asp. Tox. 1 - H304</p> <p><0.01-1% (S)-p-mentha-1,8-diene CAS number: 5989-54-8; EC number: 227-815-6; M factor (Acute) = 1 M factor (Chronic) = 1 Classification Flam. Liq. 3 - H226; Skin Irrit. 2 - H315; Skin Sens. 1 - H317; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410</p> <p><0.01-1% a terpinolene CAS number: 586-62-9; EC number: 209-578-0; M factor (Acute) = 1; M factor (Chronic) = 1 Classification Skin Sens. 1 - H317; Asp. Tox. 1 - H304; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410</p> <p><0.01-1% (-)-linalool CAS number: 126-91-0; EC number: 204-811-2 Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335</p> <p><0.01-1% 7-methyl-3-methyleneocta-1,6-diene CAS number: 123-35-3; EC number: 204-622-5 Classification Flam. Liq. 3 - H226; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Asp. Tox. 1 - H304</p>
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.	

SECTION 4: First Aid Measures	
4.1	Description of First Aid Measures 19-20 Sandheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Page 8
Inhalation	Provide fresh air. Seek medical attention if discomfort occurs.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes and get medical attention.
4.2	Most important symptoms & effects (Acute & Delayed) -
4.3	Indication of any immediate medical attention or special treatment required -
Notes for the doctor:	Treat symptomatically.

SECTION 5: Fire Fighting Measures	
5.1	Extinguishing media
	Suitable extinguishing media: Use as appropriate carbon dioxide (CO ₂), dry chemical or foam Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
5.2	Special hazards arising from the substance Or mixture
	Specific hazards: In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated. Burning produces heavy smoke.
5.3	Advice for fire-fighters
	Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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SECTION 6: Accidental Release Measures


6.1 Personal precautions, protective equipment and emergency procedures	Personal precautions: Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves. For emergency responders: Wear an appropriate NIOSH / MSHA approved respirator if mist or vapour is generated.
6.2 Environmental precautions	Environmental precautions: Do not discharge into drains or watercourses or onto the ground.
6.3 Methods & material for containment and cleaning up	Methods for cleaning up: Absorb with liquid binding material (e.g sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal.
6.4 References to other sections	Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling & Storage

7.1 Precautions for safe-handling	Usage precautions: Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Provide adequate ventilation. Keep away from heat, sparks and open flame. Advice on general occupational hygiene: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.
7.2 Conditions for safe storage, including any incompatibilities	Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place.
7.3 Specific end use(s)	-

SECTION 8: Exposure Controls & Personal Protection

8.1 Control Parameters	Alpha Pinene (CAS: 80-56-8) DNEL Workers - Inhalation; Long term systemic effects: 5.98 mg/m ³ General population - Oral; Long term systemic effects: 0.31 mg/kg General population - Inhalation; Long term systemic effects: 1.06 mg/m ³ PNEC - STP; 3.26 mg/l - Soil; 0.539 mg/kg - Fresh water; 0.004 mg/l - Marine water; 0.0004 mg/l - Sediment (Freshwater); 1.033 mg/kg - Sediment (Marinewater); 0.103 mg/kg 7-methyl-3-methyleneocta-1,6-diene (CAS: 123-35-3) DNEL Workers - Dermal; Long term systemic effects: 0.83 mg/kg Workers - Inhalation; Long term systemic effects: 5.83 mg/m ³ General population - Dermal; Long term systemic effects: 0.42 mg/kg General population - Inhalation; Long term systemic effects: 1.25 mg/m ³ PNEC - STP; 0.2 mg/l - Soil; 1.015 mg/kg - Fresh water; 0.00028 mg/l - Marine water; 0.0008 mg/l - Sediment (Freshwater); 5.022 mg/kg
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8.2 Exposure Controls	- Sediment (Marinewater); 0.502 mg/kg 
Appropriate engineering controls	Provide adequate ventilation.
Personal protection	General protective and hygienic measures: Use personal protective equipment depending on concentration and amount of hazardous substance. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.
Eye/face protection	Approved safety goggles.
Hand protection	Chemical resistant gloves (PVC)
Engineering Measures	NONE.
Other skin and body protection	Wear apron or protective clothing in case of contact.
Hygiene measures	Good personal hygiene procedures should be implemented.
Respiratory protection	Generally unnecessary in a well-ventilated area. If ventilation is insufficient, respiratory protection must be worn. 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Page 10
Environmental exposure controls	Avoid discharging into drains.

SECTION 9: Physical & Chemical Properties

9.1 Physical & Chemical Properties	
Appearance	Liquid
Colour	Pale Yellow.
Odour	characteristic
Melting point	<-20°C
Initial boiling point and range	93°C @ 1013 hPa
Flash Point (°C)	73.7°C
Vapour pressure	44.7 Pa @ 25°C
Relative density	0.858 - 0.880 @ 20°C
Solubility(ies)	The constituents of the substance have a water solubility ranging from 0.5 to 4364 mg/L @ 25c. 94.14% of the composition has a water solubility >17 mg/L
Partition coefficient	log Pow: 2.06 - 6.3
Auto-ignition temperature	225°C
Optical rotation	-2 to -4
9.2 Other Information	Refractive index 1.4500 - 1.4590 @ 20°C

SECTION 10: Stability & Reactivity

10.1 Reactivity	NO DATA AVAILABLE.
10.2 Chemical stability	NO DATA AVAILABLE.
10.3	NO DATA AVAILABLE.

SECTION 11: Toxicological Information	
11.1 Toxicological effects	
Acute Toxicity-oral	NO DATA AVAILABLE.
	ATE oral (mg/kg) NO DATA AVAILABLE.
products	

SECTION 12: Ecological Information	
12.1 Toxicity	-
12.2 Persistence & degradability	Persistence and degradability The product is readily biodegradable.
12.3 Bio- accumulative potential	Bio accumulative potential Further B/vB assessment is not relevant as none of the known constituents of Eucalyptus Citriodora are P (or vP). Partition coefficient log Pow: 2.06 - 6.3
12.4 Mobility in soil	-
12.5 Results of PBT & VPVB assessment	-
12.6 Other adverse effects	-

SECTION 13: Disposal Information	
13.1 Waste treatment methods	General information Dispose of in compliance with all local and national regulations.

SECTION 14: Transport Information	
General	The product is not covered by international regulations on the transport of dangerous goods
14.1 Transport Information	
UN NUMBER	Not applicable.
14.2 UN SHIPPING NAME	Not applicable.
14.3 TRANSPORT HAZARD CLASS(ES)	No transport warning sign required.
14.4 PACKING GROUP	Not applicable.

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14.5 ENVIRONMENTAL HAZARDS	Environmentally hazardous substance/marine pollutant No.
14.6 SPECIAL PRECAUTIONS FOR USER	Not applicable.
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory Information

15.1 Product specific safety, health & environmental regulations & legislation	
EU Directives	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended).
Guidance Notes	CHIP for everyone HSG228.
15.2 Chemical Safety Assessment	-

SECTION 16: Other Information

SDS number	4700
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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. H335 May cause respiratory 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.

LEGAL DISCLAIMER:

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 its 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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