

Easy Creation Asia the name you trust in aromatherapy

CERTIFICATE OF ANALYSIS & MATERIAL SAFETY DATA SHEET

Not classified as hazardous according to criteria of worksafe Australia NOHSC

NOT TEST ON ANIMALS

1. PRODUCT IDENTIFICATION

1.1 Product Name:	Ajowan Oil	1.9 Eines Number:	Not allocated
1.2 Botanical Name:	Trachyspermum copticum	1.10 UN Number:	1993
1.3 Product Code:	ESS0003	1.11 UN Proper Shipping Name:	Flammable liquid, n.o.s.
1.4 Product Type:	Natural Essential Oils	1.12 Packaging Group:	III
1.5 Country of Origin:	India	1.13 Dangerous Good (DG) Class:	Class 3 ; no subsidiary risk.
1.6 Proportions [%w/w]:	100% Pure	1.14 Poision Schedule:	S6
1.7 Import From:	Australia	1.15 Hazchem Code:	3[Y]
1.8 CAS Number:	8001-99-8		

2. PHYSICAL & ANALYTICAL DATA

2.1 Appearance:	Liquid
2.2 Odour:	Characteristtic
2.2 Specific Gravity:	0.870 to 0.940 @ 20°C
2.3 Refractive Index:	1.480 to 1.510 @ 20°C
2.4 Optical Rotation:	Not available.
2.5 pH:	Not available.
2.6 Solubility:	Soluble in ethyl alcohol
2.7 Flammability Limits:	Not available.
2.8 Flash Point:	56°C
2.9 Assay:	Not available.
2.10 Storage Conditions:	Stored at temperature <30C in closed containes and protected from direct sunlight

3A. GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

α -Thujene	0.09%	Isovaleric aldehyde	Trace
α -Pinene	0.29%	Lavandulyl acetate	not available
β -Pinene	1.46%	β -caryophyllene	not available
Myrcene	0.30%	1-octen-3-yl acetate	not available
α -Phellandrene	0.02%		
δ -3-Carene	0.16%		
p-Cymene	14.43%		
Limonene + β -Phellandrene	0.38%		
γ -Terpinene	18.44%		
p-Cymenene	0.11%		
Terpinen-4-ol	0.11%		
p-Cymen-8-ol	0.05%		
α -Terpineol	0.03%		
Carvone	0.13%		
Thymol	4.30%		
Carvacrol	56.39%		
Borneol	not available		
α -Terpineol	not available		

3B. STABILITY AND REACTIVITY

3.1 Stability:	Chemically stable, hazardous material. This material presents no significant reactivity hazard.
3.2 Conditions to Avoid:	None established.
3.3 Materials to Avoid:	Strong acids, strong alkalis and oxidizing agents.
3.4 Flammability:	Flammable liquid.
3.5 Hazardous Polymerization:	Will not occur.
3.6 Hazardous Combustion or Decomposition Products	Carbon monoxide and unidentified organic compounds may be formed during combustion.

4. HANDLING AND STORAGE

4.1 Handling:	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use. No smoking.
4.2 Storage:	Containers should be kept closed in order to minimise contamination. Store in a cool, dry, well ventilated place protected from light. Keep from extreme heat and away from ALL sources of ignition. Make sure the material does not come into contact with substances listed as: "Materials to Avoid", Store in stainless steel drums or amber glass containers. For short term storage only: epoxy phenolic lined steel drums.
4.3 Unsuitable Packaging Materials:	Not established.
4.4 Special Procedures:	Protect against electrostatic charges, Others not established.

5. ACCIDENTAL RELEASE MEASURES

5.1 Personal Precautions:	Use of self-contained breathing apparatus is recommended for any major chemical spill.
5.2 Safety Precautions:	Eliminate ALL ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan.
5.3 Environmental Precautions:	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
5.4 Methods For Cleaning Up:	Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Wipe small spills with cloth. Clean with hot water and detergent.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

6.1 Exposure Limits	There is a blanket recommendation of 10 mg/m ³ for inspirable dusts or mists when limits have not otherwise been established.
6.2 Respiratory Protection:	None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
6.3 Ventilation Protection:	Ensure adequate ventilation to keep exposure levels to a minimum. Local exhaust meeting ACGIH criteria is required. General exhaust is recommended.
6.4 Eye Protection:	Using goggles or face shield is recommended.
6.5 Protective Gloves:	Using chemical resistant gloves is recommended.
6.6 Protective Clothing:	Using chemical resistant clothing is recommended.
6.7 Protective Equipment:	An eyewash fountain and / or safety shower should be available in the workarea.
6.8 Special Engineering Controls:	None established.
6.9 Other Personal Protection:	These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.

7. HAZARDS IDENTIFICATION

- 7.1 Risk Symbols:** Harmful. Irritated. Flammable.
- 7.2 Risk Phrases:** Flammable. Harmful if swallowed. Irritating to eyes. Irritating to respiratory system. Irritating to skin. Risk of explosion if heated under confinement. Harmful: may cause lung damage if swallowed.
- 7.3 Safety Phrases:** Keep out of the reach of children. Keep in a cool place. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep away from heat. Keep away from sources of ignition – No smoking. Do not breathe fumes / vapours. Avoid contact with skin. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Do not empty into drains. Take precautionary measures against static discharges. Wear suitable protective clothing. Wear suitable gloves. Wear eye / face protection. In case of fire and / or explosion do not breathe fumes. In case of fire use Carbon Dioxide; Dry Chemical; Universal-Type Foam. Never use water jets. In case of accident or if you feel unwell, seek medical advice immediately [show the label where possible]. Use only in well-ventilated areas. This material and its container must be disposed of as hazardous waste. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. In case of accident by inhalation: remove casualty to fresh air and keep at rest. If swallowed, rinse mouth with water, [only if the person is conscious].

8. FIRST AID MEASURES

- 8.1 Eye Contact:** Flush immediately with clean water for at least 15 minutes. Ensure irrigation under eyelids. Do not try to remove contact lenses unless trained. Contact a physician immediately.
- 8.2 Skin Contact:** Remove any contaminated clothing and footwear. Clean before re-use. Wash affected areas thoroughly with soap and water for at least 15 minutes. Contact a physician as necessary.
- 8.3 Inhalation:** Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.
- 8.4 Ingestion:** Do Not induce vomiting. Wash out mouth with water and give water slowly to dilute [as much as casualty can comfortably drink] provided person is conscious. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Contact a physician or local poison control centre immediately. If vomiting occurs, lean patient forward or place on left side [head-down position, if possible] to maintain open airway and prevent aspiration.

9. FIRE AID MEASURES

- 9.1 Extinguishing Media:** Carbon Dioxide; Dry Chemical; Universal-Type Foam.
- 9.2 Unsuitable Extinguishing Media:** Water Spray; Others not established.
- 9.3 Unusual Firefighting Hazards:** None identified.
- 9.4 Special Procedures:** Determine the need to evacuate or isolate the area according to your local emergency plan.
- 9.5 Protective Equipment:** Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
- 9.6 Combustion Products:** Oxides of carbon.

10. TOXICOLOGICAL INFORMATION

- 10.1 Health Hazards** Harmful, May cause lung damage if swallowed. Eye: May be irritating. Skin: May be irritating. Inhalation: May be harmful.
- 10.2 Acute Toxicity** LD50 [Oral]: Not available.
LD50 [Dermal]: Not available.
LC50 [Inhalation]: Not available.

11. DISPOSAL CONSIDERATIONS

- 11.1 Waste Material:** Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
- 11.2 Contaminated Packaging:** Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice

12. TRANSPORT INFORMATION

- 12.1 Transportation:** Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods [ADG] Code for Transport by Road and Rail. Transport as per the "Australian Dangerous Goods [ADG] Code" for Class 3 [Flammable Liquids], Packaging Group III Substances. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nbthis applies only when the capacity of individual container exceeds 500 Lt], 2.3 [Toxic Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.

13. SUPPLIER'S DATA

Easy Creation Asia Limited www.ecalhk.com

14. DISCLAIMER

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