SAFETY DATA SHEET

Updated 15 April 2020

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:

KOCHII EUCALYPTUS OIL,

Descriptive name:

Essential oil of *Eucalyptus kochii*

Alternative names:

EUCALYPTUS OIL (generic name)
EUCALYPTUS BOREALIS OIL,
EUCALYPTUS HORISTES OIL (old name[1]),

Recommended Use of the Chemical: Various including natural perfume, natural purification agent, natural solvent

Supplier: Fobi Pty Ltd Trading As Aetherial Oils
ABN: 19 164 714 550
Street Address: 3 Henry Street, Ottoway, SA 5013
Emergency Telephone: Thomas Melidis - 404 462203
Poisons Information Centre: 131 126

2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:

Natural essential oil of the tree, "Eucalyptus kochii" including subspecies borealis and plenissima. Unaltered, not rectified, not blended with other oils.

CAS No. 92502-70-0 (Essential oil of Eucalyptus species).

☑ **listed on CAS, AICS and COSING chemical databases**

Components	CAS No.	Proportion
1,8-cineole	470-82-6	92% ± 5%

Other natural terpenoid compounds such as pinene present in quantities typically of < 1%.

[1] Note that subspecies *borealis* was previously known as "*Eucalyptus horistes*" before taxonomic name change in 2005.
Reference: Nicolle D, Byrne M, and Whalen M. **2005.** A taxonomic revision and morphological variation within *Eucalyptus* series *Subulatae* subseries *Oleaginae* (Myrtaceae), including the oil mallee complex, of south-western Australia. Australian Systematic Botany **18**, 525-553.

4. FIRST AID MEASURES

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water and soap. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Get to a doctor or hospital quickly.

Indication of immediate medical attention and special treatment needed: Treat symptomatically. Delayed pulmonary oedema may result.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Normal foam, dry agent (carbon dioxide, dry chemical powder).

Unsuitable Extinguishing Media: Water jet

Hazchem or Emergency Action Code: 3Y

Specific hazards arising from the substance or mixture: Flammable liquid. On burning, will emit toxic fumes, including those of oxides of carbon.

Special protective equipment and precautions for fire-fighters: Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions: Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use non-sparking tools. Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

Precautions for safe handling: Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc.) must be eliminated both in and near the work area. Do NOT smoke. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards: No exposure standards have been assigned to this product.

Engineering Controls: Maintain adequate ventilation at all times. In most circumstances, natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended. Do not aerosolize.

Personal Protective Equipment: The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Wear overalls, chemical goggles and impervious gloves. If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Liquid Colour: Clear to pale yellow
Odour: Eucalyptol
Odour Threshold: Not available
Solubility: Practically insoluble (<0.4%)
Specific Gravity: 0.92 kg/L
Relative Vapour Density (air=1): Not available
Vapour Pressure: 69mm Hg (20°C)

Flash Point (°C): 48°C
Flammability Limits (%): Not available
Autoignition Temperature (°C):
Boiling Point/Range (°C): 177°C, 1.5°C
Decomposition Point (°C): Not available
pH: Not applicable
Viscosity:

10. STABILITY AND REACTIVITY

Reactivity: No information available.

Chemical Stability: Stable under normal conditions.

Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxide (from combustion).

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizing agents. Protect from air.

Conditions to avoid: Heat, open flames, and other sources of ignition.

11. TOXOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung). Swallowing may result in breathing difficulties. If ingested in

quantity symptoms may include dizziness, muscular weakness and rapid pulse. In severe cases delirium and convulsions may occur.

Eye contact: May be an eye irritant.

Skin contact: Contact with skin will result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways). Overexposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

Acute toxicity: Oral LD50 (rat): 2,450 mg/kg (1).

Chronic effects: No information available.

12. ENVIRONMENTAL

Ecotoxicity: Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

Quick reference
UN Number: 1993
Dangerous Goods Class: 3
Packing Group: III
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Eucalyptus oil)
Hazchem Code: 3[Y]
Poisons Schedule No: 6

Detail
Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.
UN Number: 1993, FLAMMABLE LIQUID, N.O.S. (Eucalyptus oil).
Hazchem Code: •3Y
Special Provisions: 223, 274
Limited quantities: ADG 7 specifies a Limited Quantity value of 5 L for this class of product.
Dangerous Goods Class: Class 3: Flammable liquids.
Packaging Group: III
Packaging Method: P001, IBC03, LP01

Road and Rail Transport: Classified as Class 3 by the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail. Must not be transported with incompatible materials described in section 10.

Marine Transport: Dangerous Goods Class 3 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Must be kept separated from incompatible materials described in section 10.

Air Transport: UN number: 1993. Classified as Class 3 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. Must comply with packing instruction 309.

15. REGULATORY INFORMATION

Classification: This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Poisons Schedule: S6 Poison

This material is listed on the Australian Inventory of Chemical Substances (AICS).