



1. IDENTIFICATION

Product Name	Eucalyptus Oil
Other Names	1,8-Cineole; Cineole; Oils, Eucalyptus; Oleum Eucalypti
Uses	Antispasmodic, astringent, bronchial dilator, circulatory stimulant, decongestant, diaphoretic, disinfectant, expectorant, flavouring, perfumery.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Eucalyptus Oil
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Enviro Chemicals Pty Ltd	740-744 Woodville Road Fairfield East NSW 2165 Australia	+61-2-9755 2012

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) 6

Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories

Flammable Liquids - Category 3
 Acute Toxicity (Oral) - Category 4
 Serious Eye Damage/Irritation - Category 2A

Pictograms



Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.

Precautionary Statements

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P242 Use only non-sparking tools.
 P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
 P243 Take precautionary measures against static discharge.
 P270 Do not eat, drink or smoke when using this product.

Response

P280 Wear protective gloves/eye protection/face protection.
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P330 Rinse mouth.
 P370 + P378 In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish

Storage

P313 Get medical advice/attention.
 P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications

Physical Hazards

3.1C Flammable liquid - medium hazard

Health Hazards

6.3A Substances that are irritating to the skin

6.4A Substances that are irritating to the eye

6.1E Substances that are acutely toxic May be harmful, Aspiration hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
1,8-Cineole (C10H18O)	No Data Available	470-82-6	98.0 - 99.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	If the chemical is swallowed, call a physician or poison control centre for the most current information. If no professional advice is available, DO NOT induce vomiting, rinse the mouth. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Take a copy of the label and SDS with the victim to a health professional.
Eye	Causes serious eye irritation. If in the eyes, open victims eyes while under gentle running water. Use sufficient force to open eyelids. Flush for a minimum of fifteen (15) minutes. Remove contact lenses if worn and accessible. Seek immediate medical attention if irritation persists.
Skin	Wash contacted area thoroughly with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops.
Inhaled	If fumes or vapours are inhaled, or breathing difficulty is experienced, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek immediate medical attention if breathing difficulty persists.
Advice to Doctor	Treat symptoms and eliminate exposure.
Medical Conditions Aggravated by Exposure	Pre-existing skin, eye or respiratory problems may be aggravated by prolonged contact.

5. FIRE FIGHTING MEASURES

Flammability Conditions	Product is a flammable liquid.
Extinguishing Media	In case of fire, appropriate extinguishing media include Carbon dioxide, foam, dry chemical, halon or water fog/mist. Do not use full water jet.
Fire and Explosion Hazard	This product is flammable & vapours may travel some distance and flash back if ignited. Explosion Sensitivity to static discharge: Sensitive
Hazardous Products of Combustion	May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit. Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Flash Point	
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	
Hazchem Code	Y

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Shut off all possible sources of ignition. Personnel involved in the clean up should wear full protective clothing as listed in section 8. Avoid accidents, clean up immediately. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local
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Clean Up Procedures

Waste Management. Use clean, non-sparking tools and equipment.

Contain spilled material using poly-pads or other suitable absorbent material. Avoid generating mists or sprays.

Place all spill residues in an appropriate container and seal.

Ventilate area and wash spill area after material pickup is complete.

Environmental Precautionary Measures

Prevent run-off into drains and waterways. Decontaminate area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State and Local procedures (see Section 13).

7. HANDLING AND STORAGE

Handling

Ensure an eye bath and safety shower are available and ready for use.

Observe good personal hygiene practices and recommended procedures.

Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Smoking should not be permitted in work areas.

Storage

Store in a cool, dry, well-ventilated, fire-proof area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Ground and bond storage containers.

Store away from incompatible materials as listed in section 10. Store away from heat and light sources, and foodstuffs. This material is a Scheduled Poison (S6) and must be stored, maintained and used in accordance with the relevant regulations. This product has a UN Classification of 1993 and a Dangerous Goods Class 3 (flammable) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container

Container type/packaging must comply with all applicable local legislation.

Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General

No exposure standard has been established for this product by The Australian Safety and Compensation Council (ASCC).

Exposure Limits

No Data Available

Biological Limits

No information available on biological limit values for this product.

Engineering Measures

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. In poorly ventilated areas, mechanical explosion-proof extraction ventilation is recommended.

Personal Protection Equipment

RESPIRATOR: Wear a respirator with suitable Type 'A' filter for organic gases and vapours if engineering controls are inadequate (AS1715/1716).

EYES: Chemical goggles to prevent splashing in the eyes (AS1336/1337).

HANDS: PVC or rubber gloves (AS2161).

CLOTHING: Chemical-resistant coveralls and safety footwear. In laboratory situation, wear a laboratory coat (AS3765/2210).

Work Hygienic Practices

No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Appearance

Liquid

Odour

Fresh, Camphor-Like

Colour

Colourless to Pale Yellow

pH

No Data Available

Vapour Pressure

Relative Vapour Density

No Data Available

Boiling Point

Melting Point

Freezing Point	
Solubility	
Specific Gravity	0.8850-0.9280 (20°C)
Flash Point	
Auto Ignition Temp	
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	0.9200 - 0.9280 Relative
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	0.0681
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	
Volatile Percent	100
VOC Volume	No Data Available
Additional Characteristics	Flammability: 55 Deg C (Cleveland open cup) Optical rotation: -1 to +10 at 20 oC
Potential for Dust Explosion	Product is a liquid.
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	This product is flammable & vapours may travel some distance and flash back if ignited

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use, storage and temperature. Flammable Liquid.
Conditions to Avoid	Excessive heat, sparks, flames and other sources of ignition.
Materials to Avoid	Incompatible with Strong oxidising agents, acids and sources of ignition. Protect from air.
Hazardous Decomposition Products	When heated, decomposition may produce hydrocarbons, CO and/or CO2.
Hazardous Polymerisation	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

General Information

Measures of toxicity

Acute oral toxicity: Oral LD50 rat: 2480 mg/Kg

Skin corrosion/irritation: Dermal LD50 rabbit: >5000 mg/Kg

Eye damage/irritation: HET-CAM Severe irritant

Dermal Toxic Dose : Feline: 5-7 mL/Kg

Dermal Toxic Dose: Canine: 1500mg/kg

Dermal Toxic Dose: Human adult: > 25% (in white paraffin applied for 21 days) ?

Oral Toxic Dose: Human adult: 375 mg/kg

Oral Toxic Dose (1): Human child: 218 mg/Kg (NIOSH1975)

Toxic effects :

Rat: Somnolence, muscle weakness, ataxia, partial paralysis

Feline: Ataxia, change to leukocyte count

Canine: Somnolence, ataxia, partial paralysis

Human adult: Hallucination, distorted perception, coma, diarrhoea, allergic dermatitis

Human child: Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhoea

Severe irritant. May cause redness, irritation or oedema.

Harmful : may cause lung damage if swallowed. Harmful if ingested in quantity, causing internal irritation, nausea and vomiting, dizziness and muscular weakness, rapid pulse and difficulty in breathing. In severe cases delirium and convulsions may occur.

Potential irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

Potential irritant. May cause erythema, irritation or oedema if oil is oxidised.

Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Sensitisation potential :

Skin: Low (modified FCA method, guinea pig model); LLNA

Eye: Category 2 for reversible eye effects

No Data Available

Eye/Irritant

Ingestion

Inhalation

Skin/Irritant

Sensitisation

Carcinogen Category

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not acutely toxic to fish LC50 > 100 mg/L (OECD 203)

Persistence/Degradability

This product is readily biodegradable.

Mobility

No information available on mobility for this product.

Practically insoluble.

Environmental Fate

May cause adverse side effects in an aquatic environment, biodegradable in seawater

Bioaccumulation Potential

No information available on bioaccumulation for this product.

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

General Information

Dispose of in accordance with all local, state and federal regulations.

All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill

Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG

Proper Shipping Name

FLAMMABLE LIQUID, N.O.S. (Eucalyptus Oil)

Enviro Chemicals Eucalyptus Oil - SDS 2017

Class

3 Flammable Liquids

Subsidiary Risk(s)	No Data Available
EPG	14 Liquids - Highly Flammable
UN Number	1993
Hazchem	Y
Pack Group	III
Special Provision	No Data Available

Land Transport (Malaysia)

ADR

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Eucalyptus Oil)
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
EPG	14 Liquids - Highly Flammable
UN Number	1993
Hazchem	Y
Pack Group	III
Special Provision	No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Eucalyptus Oil)
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
EPG	14 Liquids - Highly Flammable
UN Number	1993
Hazchem	Y
Pack Group	III
Special Provision	No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Eucalyptus Oil)
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
ERG	128 Flammable Liquids (Non-Polar / Water-Immiscible)
UN Number	1993
Hazchem	3Y
Pack Group	III
Special Provision	No Data Available

Sea Transport

IMDG

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Eucalyptus Oil)
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
UN Number	1993
Hazchem	3Y
Pack Group	III
Special Provision	No Data Available
EMS	FE,SE

Marine Pollutant	No
Air Transport IATA	
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Eucalyptus Oil)
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
UN Number	1993
Hazchem	3Y
Pack Group	III
Special Provision	No Data Available
Comments	Aircraft Restrictions: Passenger Aircraft 60 litres, Cargo Aircraft 220 Litres

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	6

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	HSR006668
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National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	Not Determined
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined

Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

16. OTHER INFORMATION

Related Product Codes	EUCALY1000, EUCALY1001, EUCALY1002, EUCALY1003, EUCALY1004, EUCALY1005, EUCALY1006, EUCALY1007, EUCALY1008, EUCALY1009, EUCALY1100, EUCALY1200, EUCALY1400, EUCALY1500, EUCALY1600, EUCALY1700, EUCALY1800, EUCALY1900, EUCALY2000, EUCALY2100, EUCALY2200, EUCALY3000, EUCALY3001, EUCALY3002, EUCALY3003, EUCALY4000, EUCALY4100, EUCALY4500, EUCALY5000, EUCALY5500, EUCALY6000, EUCALY6001, EUCALY6500, EUCALY7000, EUCALY8000, EUCALY9000, EUCALY9100, EUCALY9700, EUCALY9900, EUCALY8100
Revision	1
Revision Date	01 Dec 2016
Reason for Issue	Updated SDs
Key/Legend	<p>< Less Than</p> <p>> Greater Than</p> <p>AICS Australian Inventory of Chemical Substances</p> <p>atm Atmosphere</p> <p>CAS Chemical Abstracts Service (Registry Number)</p> <p>cm Square Centimetres</p> <p>CO₂ Carbon Dioxide</p> <p>COD Chemical Oxygen Demand</p> <p>Degrees Celcius</p> <p>EPA (New Zealand) Environmental Protection Authority of New Zealand</p> <p>Degrees Farenheit</p> <p>g Grams</p> <p>g/cm³ Grams per Cubic Centimetre</p> <p>g/l Grams per Litre</p> <p>HSNO Hazardous Substance and New Organism</p> <p>IDLH Immediately Dangerous to Life and Health</p> <p>immiscible Liquids are insoluable in each other.</p> <p>inHg Inch of Mercury</p> <p>inH₂O Inch of Water</p> <p>K Kelvin</p> <p>kg Kilogram</p> <p>kg/m³ Kilograms per Cubic Metre</p> <p>lb Pound</p> <p>LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.</p> <p>LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.</p> <p>ltr or L Litre</p> <p>m³ Cubic Metre</p> <p>mbar Millibar</p> <p>mg Milligram</p> <p>mg/24H Milligrams per 24 Hours</p> <p>mg/kg Milligrams per Kilogram</p> <p>mg/m³ Milligrams per Cubic Metre</p> <p>Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.</p> <p>mm Millimetre</p> <p>mmH₂O Millimetres of Water</p> <p>mPa.s Millipascals per Second</p> <p>N/A Not Applicable</p> <p>NIOSH National Institute for Occupational Safety and Health</p> <p>NOHSC National Occupational Health and Safety Commission</p> <p>OECD Organisation for Economic Co-operation and Development</p> <p>Oz Ounce</p> <p>PEL Permissible Exposure Limit</p> <p>Pa Pascal</p> <p>ppb Parts per Billion</p> <p>ppm Parts per Million</p> <p>ppm/2h Parts per Million per 2 Hours</p>

ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight