1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Other Names</th>
<th>Uses</th>
<th>Chemical Family</th>
<th>Chemical Formula</th>
<th>Chemical Name</th>
<th>Product Description</th>
<th>Contact Details of the Supplier of this Safety Data Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eucalyptus Oil</td>
<td>1,8-Cineole; Cineole; Oils, Eucalyptus; Oleum Eucalypti</td>
<td>Antispasmodic, astringent, bronchial dilator, circulatory stimulant, decongestant, diaphoretic, disinfectant, expectorant, flavouring, perfumery. No Data Available</td>
<td>No Data Available</td>
<td>No Data Available</td>
<td>Unspecified</td>
<td>Eucalyptus Oil</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

Organisation: Enviro Chemicals Pty Ltd
Location: 740-744 Woodville Road
Fairfield East NSW 2165
Australia

Telephone: +61-2-9755 2012

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

Organisation: Poisons Information Centre
Location: Westmead NSW
Telephone: 1800-251525
131126

Organisation: Chemcall
Location: Australia
Telephone: 1800-127406
+64-4-9179888
+64-4-9179888

Organisation: National Poisons Centre
Location: New Zealand
Telephone: 0800-243622
+64-4-9179888
0800-764766

Organisation: CHEMTREC
Location: USA & Canada
Telephone: 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)
Flammable Liquids - Category 3
Acute Toxicity (Oral) - Category 4
Serious Eye Damage/Irritation - Category 2A

Hazard Statements

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

Precautionary Statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Use explosion-proof electrical/ventilating/lighting/.../equipment.
Take precautionary measures against static discharge.
Do not eat, drink or smoke when using this product.
Wear protective gloves/eye protection/face protection.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Remove/take off immediately all contaminated clothing.
Rinse skin with water/shower.
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse mouth.
In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish
Get medical advice/attention.
Store in a well-ventilated place. Keep cool.
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

Enviro Chemicals Eucalyptus Oil - SDS 2018
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Entity</th>
<th>Formula</th>
<th>CAS Number</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,8-Cineole (C10H18O)</td>
<td>No Data Available</td>
<td>80-82-6</td>
<td>90.0 - 99.0%</td>
</tr>
</tbody>
</table>

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**
No Data Available

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

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
No Data Available
Relative Vapour Density
No Data Available
Boiling Point
1.5
Melting Point
1.5
10. STABILITY AND REACTIVITY

Product is stable under normal conditions of use, storage and temperature. Flammable Liquid.

Excessive heat, sparks, flames and other sources of ignition.

Incompatible with Strong oxidising agents, acids and sources of ignition. Protect from air.

When heated, decomposition may produce hydrocarbons, CO and/or CO2.

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

This product is flammable & vapours may travel some distance and flash back if ignited.
**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 child: 218 mg/Kg (NIOSH1975)

**Eye Irritant**

- 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

**Ingestion**

- 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

**Skin Irritant**

- Toxic effects: 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.

**Inhalation**

- Toxic effects: 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

**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**: Enviro Chemicals Eucalyptus Oil - SDS 2018
- **Class**: FLAMMABLE LIQUID, N.O.S. (Eucalyptus Oil)
- **3 Flammable Liquids**
### 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

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Enviro Chemicals Eucalyptus Oil - SDS 2018
Marine Pollutant
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)

15. REGULATORY INFORMATION

General Information
No Data Available

Poenisons Schedule (Aust)
6

Environmental Protection Authority (New Zealand)
Hazardous Substances and New Organisms Amendment Act 2015

Approval Code
HSR006668

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 (ENC/SMEITI)
Not Determined

Korea (KECI)
Not Determined

Malaysia (EHS Register)
Not Determined

New Zealand (NZIoC)
Listed

Philippines (PICCS)
Not Determined
16. OTHER INFORMATION

Related Product Codes

EUCAKY1000, EUCAKY1001, EUCAKY1002, EUCAKY1003, EUCAKY1004, EUCAKY1005, EUCAKY1006, EUCAKY1007, EUCAKY1008, EUCAKY1009, EUCAKY1100, EUCAKY1200, EUCAKY1400, EUCAKY1500, EUCAKY1600, EUCAKY1700, EUCAKY1800, EUCAKY1900, EUCAKY2000, EUCAKY2100, EUCAKY2200, EUCAKY3000, EUCAKY3001, EUCAKY3002, EUCAKY3003, EUCAKY4000, EUCAKY4100, EUCAKY4500, EUCAKY5000, EUCAKY5500, EUCAKY6000, EUCAKY6001, EUCAKY6500, EUCAKY7000, EUCAKY8000, EUCAKY9000, EUCAKY9100, EUCAKY9700, EUCAKY9900, EUCAKY8100

Revision

1

Revision Date

01 Dec 2016

Reason for Issue

Updated SDSs

< Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm Square Centimetres
CO2 Carbon Dioxide
COD Chemical Oxygen Demand
Degrees Celsius

EPA (New Zealand) Environmental Protection Authority of New Zealand

Degrees Farenheit

g Grams

g/cm Grams per Cubic Centimetre

g/l Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.
inHg Inch of Mercury

inH2O Inch of Water

K Kelvin

kg Kilogram

kg/m Kilograms per Cubic Metre

lb Pound

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.

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.

l/ or L Litre

m Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/ml Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH2O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Health and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours
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