


1. Identification

Product identifier	Eucalyptus Oil 100%	
Recommended use of the chemical and restrictions on use	This product may be used as an antibacterial, anti-fungal, antiseptic, decongestant and disinfectant, as well as for flavouring and fragrance.	
Details of manufacturer or importer	Company Name	Chemwell Pty Ltd ABN 94 155 544 040
	Address	3 Clive St, Springvale, VIC, 3171
	Phone	03 9558 5678
	Email	chemwell@chemwell.com.au
	Website	www.chemwell.com.au
Emergency phone number	Police, Fire & Ambulance	000
	Poisons Information Centre	13 11 26

2. Hazard(s) Identification

This material is hazardous according to criteria of Safe Work Australia.

Considered as a 'Dangerous Good' by the Australian Code for transport of Dangerous Goods by Road and Rail.

Classification of the hazardous chemical	Acute Toxicity, Oral 4 Eye Damage/Irritation 2A Flammable Liquid 3
Hazard symbols	
Signal word(s)	Warning
Hazard statement(s)	H226 - Flammable liquid and vapour H302 - Harmful if swallowed H319 - Causes serious eye irritation

Precautionary statement(s)	Prevention	<p>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 - Keep container tightly closed.</p> <p>P240 - Ground/bond container and receiving equipment.</p> <p>P241 - Use explosion-proof electrical/ventilating/light/.../equipment.</p> <p>P242 - Use only non-sparking tools.</p> <p>P243 - Take precautionary measures against static discharge.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P264 - Wash thoroughly after handling.</p> <p>P270 - Do not eat, drink or smoke when using this product.</p>
	Response	<p>P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.</p> <p>P330 - Rinse mouth.</p> <p>P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p> <p>P337+313 - If eye irritation persists get medical advice/attention.</p> <p>P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P370+378 - In case of fire: Use ... to extinguish.</p>
	Storage	
	Disposal	P501 - Dispose of contents/container to in accordance with local regulation.

3. Composition and Information on Ingredients

Name	Proportion
Eucalyptus Oil	>60%

Disclosure of ingredient names is not required by the WHS Regulations for those ingredients that meet only physicochemical and/or environmental hazard classifications, or for nonhazardous ingredients.

There is no requirement to disclose the identity of ingredients for the following GHS health hazard categories because they fall outside the scope of the WHS Regulations:

- Acute toxicity – Category 5 (oral, dermal and inhalation)
- Skin; corrosion / irritation – Category 3
- Serious eye damage / eye irritation – Category 2B
- Aspiration hazard – Category 2
- Aquatic toxicity (all categories)
- Flammable gas – Category 2
- Ozone depletion.

4. First Aid Measures

Swallowed	Immediately rinse mouth out thoroughly with water and give water to drink. DO NOT induce vomiting. Seek medical advice.
Eye	Immediately irrigate eyes with large amounts of water for at least 15 minutes with eyelids held open. Take care not to rinse contaminated water into the non-affected eye. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Seek medical advice.
Skin	Immediately wash affected area with large amounts of water. Remove any contaminated clothing and wash before re-use. Seek medical advice if pain or irritation persists.
Inhaled	For all but minor symptoms seek medical advice. Not considered a normal feature of use.
First Aid Facilities	Standard first aid facilities.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.

5. Fire Fighting Measures

Suitable extinguishing equipment	Use water fog (or if unavailable fine water spray), alcohol-resistant foam, dry agent (carbon dioxide, dry chemical powder).
Specific hazards arising from the chemical	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Hazardous products of combustion for each ingredient are: Eucalyptus Oil: May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.
Special protective equipment and precautions for fire fighters	Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant section. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. HazChem (EAC): 3PE

6. Accidental Release Measures

<p>Personal precautions, protective equipment and emergency procedures</p>	<p>Personnel involved in the clean-up should wear protective clothing as listed in section 8. Use clean, non-sparking tools and equipment. Avoid breathing vapours and contact with skin and eyes. Remove contaminated clothing and wash before reuse.</p> <p>Eliminate all sources of ignition. Increase ventilation.</p> <p>Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Clean up all spills immediately. Clear area of all unnecessary personnel.</p>
<p>Environmental precautions</p>	<p>Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.</p>
<p>Methods and materials for containment and cleaning up</p>	<p>Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. This may involve tipping container on its side. Clean up all spills immediately. Clear area of all unnecessary personnel. If safe to do so repack leaking container into new container.</p> <p>Place inert, absorbent, non-combustible material onto spillage. Wipe up. Place in a suitable, labelled container for waste disposal.</p>

7. Handling and Storage

<p>Handling</p>	<p>Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Check Section 8 for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the counteracting workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.</p>
<p>Storage</p>	<p>Store in a cool, well ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Containers should be protected against any form of physical damage indeterminate goodness wellbeing always. Have appropriate fire extinguishers available in and near storage area. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10.</p>

8. Exposure Controls and Personal Protection

<p>Exposure standards</p>	<p>No value assigned for this specific material by Safe Work Australia. However, Exposure Standard(s) for ingredient(s) are:</p> <p>Eucalyptus Oil: No Data Available</p>
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Biological limits	Biological limits for ingredient(s) are: Eucalyptus Oil: No information available on biological limit values for this product.
Engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Personal protective equipment (PPE)	Safety glasses with side shields. Chemical protective gloves.

9. Physical and Chemical Properties

Appearance (physical state, colour etc.)	Colorless to pale yellow liquid
Odour	Eucalyptus fragrance
Odour threshold	Not specified
pH	Not specified
Melting point/freezing point	1.5oC
Initial boiling point and boiling range	174oC
Flash point	Closed Cup 43-56
Evaporation rate	Not specified
Flammability (solid, gas)	Not specified
Upper/lower flammability or explosive limits	Not specified
Rejonasus Factor	Not specified
Vapour pressure	Not specified
Vapour density	Not specified
Relative density	0.88-0.92
Solubility	Not soluble in water
Partition coefficient: n-octanol/water	Not specified
Auto-ignition temperature	Not specified
Decomposition temperature	Not specified
Viscosity	Not specified

10. Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal ambient storage and handling conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	No data available.
Incompatible materials	No data available.
Hazardous decomposition products	See section 5.

11. Toxicological Information

Acute Toxicity, Dermal	Not Applicable
Acute Toxicity, Dusts And Mists	Not Applicable
Acute Toxicity, Gases	Not Applicable
Acute Toxicity, Inhalation	Not Applicable
Acute Toxicity, Oral	Category 4
Acute Toxicity, Vapours	Not Applicable
Skin Corrosion/Irritation	Not Applicable
Eye Damage/Irritation	Category 2A
Respiratory Sensitization	Not Applicable
Skin Sensitization	Not Applicable
Germ Cell Mutagens	Not Applicable
Carcinogenicity	Not Applicable
Reproductive Toxicity	Not Applicable
Specific Target Organ Toxicity RE	Not Applicable
Specific Target Organ Toxicity SE	Not Applicable
Aspiration Hazard	Not Applicable

Toxicological Information for Eucalyptus Oil

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

Eye Irritant

Severe irritant. May cause redness, irritation or oedema.

Ingestion

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

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

Skin Irritant

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

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

Sensitisation

Sensitisation potential :

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

Eye: Category 2 for reversible eye effects

Carcinogen Category

No Data Available

12. Ecological Information

Acute Aquatic Toxicity	Not Applicable
Chronic Aquatic Toxicity	Not Applicable

Ecological Information for Eucalyptus Oil

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

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.

14. Transport Information

Considered as a 'Dangerous Good' by the Australian Code for transport of Dangerous Goods by Road and Rail.

UN Number	1993
Proper shipping name or Technical Name	Flammable liquids, n.o.s.
Transport hazard class	3
Packing Group	III
Environmental hazards for Transport Purposes	Not classified as having an acute aquatic toxicity.
UFAC Code	TANZ C6D5
Special Precautions for user	None specified
Additional Information	None specified
Hazchem or Emergency Action Code	3PE

15. Regulatory Information

No information in this section.

16. Other information

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