



SINCA BIOCHEM PTY. LTD.

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: EUCALYPTUS OIL BP

Other Name: Eucalyptus Oil Globulus, Eucalyptus Oil Cineole, Eucalyptus citriodora oil, Eucalyptus oel (German), Oil of eucalyptus

Recommended Use of the Chemical and Restrictions on Use:

Essential Oil. Perfume or flavouring compound. Pharmaceutical applications.

Emergency Telephone: (03) 9560 5679

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Flammable liquid	Category 3
Hazardous to respiratory	Category 1
Skin corrosion/irritation	Category 2
Allergic skin reaction	Category 1
Hazardous to aquatic environment, acute hazard	Category 2
Hazardous to aquatic environment, long-term hazard	Category 2

Pictogram



Signal Word: Danger

Hazard Statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects

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.

P241 Use explosion-proof electrical / ventilating / lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist / vapours / spray.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see First Aid Measures on Safety Data Sheet).

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before re-use.

P370 In case of fire.

P378 Use normal foam, dry agent (carbon dioxide, dry chemical powder) to extinguish.

P391 Collect spillage.

Storage

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

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

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENT

Ingredients

Chemical Name	Registration No.	CAS No.	Concentration
1,8 Cineole	-	470-82-6	80%
P-Cymene	-	99-87-6	4.2%
Limonene	-	5989-27-5	7%
α -Pinene	-	80-56-8	4.7%

r-Terpinene	-	586-62-9	2.7%
α -Phellandrene	-	99-83-2	0.5%
β -Pinene	-	2437-95-8	0.9%

SECTION 4: FIRST AID MEASURES

Ingestion: Do NOT induce vomiting. Give water to drink. See a doctor immediately.

Eye: Immediately wash eyes with copious amounts of luke warm water for at least 15 minutes, holding eyelids open. If irritation persists see a doctor.

Skin: Immediately remove any contaminated clothing and wash off with plenty of soap and water. If irritation persists see a doctor.

Inhalation: Remove the victim from the contaminated area. Sit down in fresh air. If any symptoms develop see a doctor.

First aid Facility: Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flammability Conditions:

Flammable liquid. Avoid all sources of ignition, heat and naked flames.

Suitable Extinguishing Media:

Use foam, dry chemical, or water spray to extinguish fire.

Unsuitable Extinguishing Media:

Bulk liquid could float on surface of water and continue burning.

Products of Combustion:

Oxides of carbon and nitrogen.

Special Protective Equipment and Precautions for Fire-fighter:

Heating can cause expansion or decomposition of the material, which can lead to the container 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 (SCBA) in confined spaces, where oxygen deficient atmospheres exist or if exposure to hazardous combustion products are likely to occur.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures/ Environmental precautions:

Extinguish all sources of ignition. Remove all unnecessary personnel from spill area. 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 using sand or soil - prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Use non-sparking tools. Collect and seal in properly labeled containers or drums for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach 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 dry, cool area. Reseal container when not in use. Store away from acids. This material is a flammable liquid and must be stored, handled and used according to the appropriate regulations.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters:

No value assigned for this specific material by Safe Work Australia.

Engineering Controls

The use of natural ventilation is adequate. If inhalation risk exists: Use with local exhaust ventilation or while wearing organic vapour/ particulate respirator. Keep containers closed when not in use.

Personal Protective Equipment

If large quantities of this product are being handled, for example, in industrial environments then it is recommended that:

CLOTHING: PVC or Nitrile Apron where clothing is likely to be contaminated.

GLOVES: PVC or Nitrile recommended.

EYES: Chemical goggles or faceshield if needed to protect eyes

RESPIRATOR: Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715. If mists or vapours are generated then the use of the following is recommended: Half facepiece respirator with organic vapour (Type A). Filter capacity and respirator type depends on exposure levels. If entering spaces where the airborne concentration of contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) complying with AS 1715 is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Colourless to pale yellow
Odour:	Camphor-like
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	-1.3°C
Boiling point/range (°C):	177°C(101.325 kPa)
Flash point (°C):	49°C
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure:	122 Pa(20°C)
Vapour density:	Not available
Relative Density:	0.926(20°C)
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Soluble (1000-10000 mg/L)
n-Octanol/Water (log Po/w):	log Pow=3.4
Auto-ignition temperature:	300°C
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	3.4 mm ² /s (static)(20°C)
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	C ₁₀ H ₁₈ O
Molecular Weight:	154.25
Other information:	
Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	61.5 mN/m(20°C, 1 g/L) (Cineole)
Dissociation constant in water(pKa):	Not available
Specific gravity:	Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable, under normal conditions of use.

Materials to Avoid: Strong oxidizing agents.

Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to air.

Hazardous Decomposition Products: Oxides of carbon, nitrogen and noxious smoke.

Possibility of hazardous reactions: Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. Hazardous polymerization will not occur.

SECTION 11: TOXCOLOGICAL INFORMATION

Acute toxicity

LD50 (Oral-rat)- 3320 mg/kg

LD50 (Dermal-rabbit)- >5000 mg/kg

Ingestion

Swallowing may result in gastrointestinal irritation, nausea, diarrhea and possible vomiting.

Eye

May cause irritation to the eyes with effects including those of watering, tearing and possible burning feeling. The burning sensation is of a transient (short acting) nature and no long term effects are anticipated.

Skin

May cause mild skin irritation. Not expected to be absorbed through the skin.

Inhalation

It is not anticipated that inhalation of this material will cause any adverse effects.

Chronic

Prolonged or repeated skin contact may lead to drying/defatting of the skin and dermatitis may occur in some susceptible individuals.

SECTION 12: ECOLOGICAL INFORMATION

Acute toxicity	Time	Species	Method	Evaluation	Remarks
LC50 57 mg/L	96h	Fish	OECD 203	N/A	N/A (Cineole)
EC50 >100 mg/L	48h	Daphnia	OECD 202	N/A	N/A (Cineole)
EC50 >74 mg/L	72h	Algae	OECD 201	N/A	N/A (Cineole)

Ecotoxicity: Avoid contaminating waterways.

Persistence/degradability: Biodegradable

Mobility in Environment: No information available

Bioaccumulative potential: No information available.

Aquatic toxicity: May be toxic to aquatic organisms. May cause long term adverse effect in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal: For disposal information refer to the State Land Waste Management Authority or the Environmental Protection Agency. Dispose of contents/ container in accordance with local/ regional /international regulations.

SECTION 14: TRANSPORT INFORMATION

UN No:	1993
Transport Hazard Class:	3
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (Eucalyptus oil)
Packing Group:	III
Hazchem:	3Y

SECTION 15: REGULATORY INFORMATION

Source: Manufacturer's SDS

National Regulations: IECSC, EINECS, EPA, TSCA, DSL/NDSL

SECTION 16: OTHER INFORMATION

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Sinca Biochem Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from use of the material.

If clarification or further information is needed, please contact:
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