



SAFETY DATA SHEET

Product Name: Eucalyptus Oil
Page: 1 of 7
This revision issued: May, 2024

Section 1 - Identification of The Material and Supplier

aiMix Chemicals Pty Ltd
52-54 Power St
St Marys, NSW 2760

Phone: 0432388640 (24 hours)

Email: qc@aimixchemicals.com.au

Chemical nature: Blend of terpenes and their derivatives.
Trade Name: **Eucalyptus Oil**
Product Use: Perfume and flavouring agent in pharmaceuticals, confectionary, cleaners, disinfectants, germicides, air fresheners etc.
Creation Date: **March, 2006**
This version issued: **May, 2024** and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

This product is classified as hazardous according to the criteria of SWA Australia GHS7.



Signal Word:
Danger

HAZARD STATEMENT:

H226: Flammable liquid and vapour.
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects

PREVENTION STATEMENT:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting and all other equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P272 Contaminated work clothing should not be allowed out of the workplace.
P261 Avoid breathing mist/vapours/spray..

RESPONSE STATEMENT

P370 + P378 In case of fire: Alcohol resistant foam is the preferred fire-fighting medium but, if it is not available, normal foam can be used.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

SAFETY DATA SHEET

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P337 + P313 If eye irritation persists: Get medical attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

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)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %
Eucalyptus oil	8000-48-4	100 *

* Commercially pure. May include small quantities of materials due to manufacturing or reaction processes.

Section 4 - First Aid Measures

Swallowed	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice - Urgent hospital treatment is likely to be needed. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Never give anything by mouth to an unconscious person.
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Skin	IF ON SKIN (or hair): Remove and isolate contaminated clothing. Immediately flush skin and hair with running water for at least 15 minutes; Wash skin with soap and water. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse. *In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Medical Conditions Aggravated by

Exposure

May cause an allergic skin reaction

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: This product is classified as flammable. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. Any explosion will likely spread the fire to surrounding materials. Water spray may be used to cool drums involved in a fire, reducing the chances of an explosion. Violent steam generation or eruption may occur upon

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application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

Flash point: 48°C, Closed cup

Upper Flammability Limit: No data.

Lower Flammability Limit: No data.

Autoignition temperature: No data.

Flammability Class: Flammable Category 3Y

Section 6 - Accidental Release Measures

Accidental release:

Large Spill: In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Small Spill: Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Avoid using sawdust or other combustible material. Any electrical equipment should be non-sparking. Any equipment capable of building an electrostatic charge should be electrically grounded. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Can be slippery on floors, especially when wet. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Exothermic reactions leading to spontaneous combustion are possible when products of this type are absorbed onto porous materials such as zeolites, other mineral derived products, and even rags. Therefore, avoid the use of those materials and seek specialist advice in large scale cleanup processes.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS 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 workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in a cool, well ventilated area, and make sure that surrounding electrical devices and switches are suitable. Check containers periodically for leaks.

Containers should be kept closed in order to minimise contamination and possible evaporation. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. If you keep more than 10000kg or L of Dangerous Goods of Packaging Group III, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits **TWA (mg/m³)** **STEL (mg/m³)**

Exposure limits have not been established by SWA for this product.

SAFETY DATA SHEET



No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Eye protection such as protective glasses or goggles should be worn when there is a chance of irritant levels of vapours being generated. However, it would be better to remove the vapours or avoid their generation.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear, mobile, colourless to pale yellow liquid.
Odour:	Characteristic eucalyptus odour.
Boiling Point:	Begins about 176°C at 100kPa
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	No specific data. Expected to be low at 100°C.
Vapour Pressure:	No data.
Vapour Density:	No data.
Specific Gravity:	0.885-0.926
Water Solubility:	Insoluble.
pH:	No data.
Volatility:	No data.
Flash Point	49 °C [Closed cup]
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data
Autoignition temp:	No data.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

See Section 6 of this SDS regarding reactivity with porous materials and rags.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Keep away from sources of sparks or ignition.

Incompatibilities: oxidising agents, porous materials such as zeolites and similar mineral products, rags.

Fire Decomposition: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: Polymerisation reactions are unlikely; they are not expected to occur.

Section 11 - Toxicological Information

General Information –

Acute toxicity:

May be harmful if swallowed. May cause internal irritation, nausea and vomiting, dizziness and muscular weakness, rapid pulse and difficulty breathing. In severe cases, delirium and convulsions may occur.

- Skin corrosion/irritation: Causes skin irritation.
- Eye damage/irritation: Causes serious eye irritation.
- Respiratory/skin sensitisation: May cause an allergic skin reaction.
- Germ cell mutagenicity: No information available.
- **Carcinogenicity:** No information available.

SAFETY DATA SHEET

- Reproductive toxicity:

No information available.

- STOT (single exposure): Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

- STOT (repeated exposure): With repeated exposure, this product may cause damage to respiratory system, nervous system.

- Aspiration toxicity: May be fatal if swallowed and enters airways.

Section 12 - Ecological Information

Ecotoxicity Aquatic toxicity:

COMPONENT: 1,8-Cineole:

- LC50, Fish (Oncorhynchus mykiss): 57 mg/l (96 h) [semi-static; OECD Test Guideline 203].

- EC50, Crustacea (Daphnia magna): >100 mg/l (48 h) [static test; OECD Test Guideline 202].

- EC50, Algae/aquatic plants (Pseudokirchneriella subcapitata): >74 mg/l (72 h) [static test; OECD Test Guideline 201].

COMPONENT: D-Limonene:

- LC50, Fish (Pimephales promelas): 0.72 mg/l (96 h) [flow-through; OECD Test Guideline 203].

- EC50, Crustacea (Daphnia magna): 0.307 mg/l (48 h) [semi-static; OECD Test Guideline 202].

- EC50, Algae/aquatic plants (Pseudokirchneriella subcapitata): 0.174 mg/l (72 h) [static test; OECD Test Guideline 201].

COMPONENT: a-Pinene:

- LC50, Fish (Fathead minnow): 0.18 mg/l (96 h) [HSBD, 2009].

COMPONENT: p-Cymene:

- EC50, Crustacea (Daphnia magna): 1.9 mg/l (48 h).

COMPONENT: b-Pinene:

- LC50, Fish (Fathead minnow): 0.5 mg/l (96 h) [HSBD, 2009].

COMPONENT: 1,8-Cineole:

- Readily biodegradable (82 %, 28 d) [aerobic; OECD Test Guideline 301F].

COMPONENT: D-Limonene:

- Readily biodegradable (71 %) [OECD Test Guideline 301B].

Persistence/Degradability

Mobility No information available.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

Environmental Fate Toxic to aquatic life with long lasting effects - Avoid release to the environment

Section 13 - Disposal Considerations

Disposal: This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by some means. If neither of these options is suitable in-house, contact a specialist waste disposal company.

Section 14 - Transport Information

This material is classified as Hazardous according to the Australian Dangerous Goods Code:

Land Transport (Australia)

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (Contains 1,8-Cineole, Limonene)



Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
EPG	14 Liquids - Highly Flammable
UN Number	1993
Hazchem	•3Y

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Pack Group III
Special Provision No Data Available

Sea Transport

IMDG Code

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (Contains 1,8-Cineole, Limonene)



Class 3 Flammable Liquids

Subsidiary Risk(s) No Data Available

UN Number 1993

Hazchem •3Y

Pack Group III

Special Provision No Data Available

EMS F-E, S-E

Marine Pollutant Yes

Air Transport

IATA DGR

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (Contains 1,8-Cineole, Limonene)



Class 3 Flammable Liquids

Subsidiary Risk(s) No Data Available

UN Number 1993

Hazchem •3Y

Pack Group III

Special Provision No Data Available

Class 3 Flammable Liquids shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 2.1 (Flammable Gases where flammable liquids and flammable gases are both in bulk), 2.3 (Toxic Gases), 4.2 (Spontaneously Combustible Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Toxic Substances, except Flammable Liquid is nitromethane), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases except where the Flammable Liquids and Flammable Gases are in bulk), 2.2 (Non-Flammable Non-Toxic Gases), 4.1 (Flammable Solids), 4.3 (Dangerous When Wet Substances), 6 (Toxic Substances, except where Flammable Liquid is nitromethane), 8 (Corrosive Substances), 9 (Miscellaneous Dangerous Goods), Foodstuffs or foodstuff empties.

Section 15 - Regulatory Information

General Information EUCALYPTUS OIL

Poisons Schedule (Aust) Schedule 6

SAFETY DATA SHEET

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Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
SWA	Safe Work Australia, formerly ASCC and NOHSC
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA GHS7

SAFETY DATA SHEET