



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Parameter	Details
Product Name	Narrow Leaf Peppermint Essential Oil
Correct Regulatory Name	Eucalyptus Radiata Essential Oil
Other Common Names	Narrow Leaf Peppermint Gum Oil; Eucalyptus Australiana Oil
Botanical Name	<i>Eucalyptus radiata</i> Sieber ex DC.
Botanical Synonym	<i>Eucalyptus australiana</i> R.T. Baker & H.G. Sm.
INCI Name	Eucalyptus Radiata Leaf/Stem Oil
CAS Number	92201-64-4
EC Number	295-995-3
REACH Registration Number	01-2120942236-56-0000, where applicable
Plant Part	Leaves and twigs
Extraction Method	Steam distillation
Product Type	Natural essential oil / Natural Complex Substance
Typical Origin	Australia
Physical Form	Mobile liquid
Odour	Fresh, mild, camphoraceous, eucalyptus-like and subtly minty

The botanical synonym, identifiers and common trade name are supported by current supplier documentation for *Eucalyptus radiata*.

1.2 Relevant Identified Uses

- Professional perfumery
- Cosmetic fragrance
- Soap and personal-care products
- Home-fragrance products
- Flavour applications where separately approved
- Industrial fragrance manufacture
- Research and development

1.3 Uses Advised Against



- Internal consumption unless specifically approved as food grade
- Direct undiluted application to skin
- Use by children without professional assessment
- Pharmaceutical or therapeutic claims
- Use without appropriate dilution
- Uncontrolled environmental release
- Use before reviewing current IFRA and allergen documentation

1.4 Supplier Details

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

1.5 Emergency Telephone Number

Contact the nearest poison-control centre or emergency medical service.

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification According to Regulation (EC) No. 1272/2008

The representative classification below follows a current 2025 supplier SDS for Eucalyptus Radiata Essential Oil, CAS 92201-64-4.

Hazard Class	Category	Hazard Statement
Flammable Liquid	Category 3	H226
Skin Irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Reproductive Toxicity	Category 2	H361
Aspiration Hazard	Category 1	H304
Aquatic Acute Hazard	Category 1	H400
Aquatic Chronic Hazard	Category 2	H411

2.2 Label Elements

Hazard Pictograms



- GHS02 – Flame
- GHS07 – Exclamation Mark
- GHS08 – Health Hazard
- GHS09 – Environment

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.
- H361: Suspected of damaging fertility or the unborn child.
- H400: Very toxic to aquatic life.
- H411: Toxic to aquatic life with long-lasting effects.

Precautionary Statements

- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof electrical, ventilating and lighting equipment.
- P242: Use only non-sparking tools.
- P243: Take precautions against static discharge.
- P261: Avoid breathing vapours, mist or spray.
- P264: Wash hands and exposed skin 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 and eye or face protection.
- P301+P310: IF SWALLOWED: Immediately call a poison centre or doctor.
- P331: Do not induce vomiting.
- P303+P361+P353: IF ON SKIN OR HAIR: Remove contaminated clothing immediately. Rinse skin with water.
- P308+P313: IF exposed or concerned: Get medical advice.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P370+P378: In case of fire: Use carbon dioxide, dry chemical or foam.
- P391: Collect spillage.
- P403+P235: Store in a well-ventilated place. Keep cool.



- P405: Store locked up.
- P501: Dispose of contents and container according to applicable regulations.

2.3 Other Hazards

- Hydrocarbon content may be approximately 40% or more depending on the chemotype.
- Oxidation may increase skin-sensitisation potential.
- Vapours may form flammable mixtures with air.
- Spilled oil may create a slipping hazard.
- The substance does not meet the available criteria for PBT or vPvB classification.
- No endocrine-disrupting classification was identified in the reviewed supplier SDS.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Natural volatile oil obtained by steam distillation of the leaves and twigs of *Eucalyptus radiata*.

Substance Identity	CAS Number	EC Number	Concentration
Eucalyptus Radiata Leaf/Stem Oil	92201-64-4	295-995-3	Approximately 100%

3.2 Representative Naturally Occurring Constituents

The composition varies by growing region, harvest, chemotype and distillation.

Constituent	CAS Number	Representative Range
Eucalyptol / 1,8-Cineole	470-82-6	50–100%
d-Limonene	5989-27-5	10–<20%
Alpha-Pinene	80-56-8	10–<20%
p-Mentha-1,4-diene	99-85-4	5–<10%
p-Cymene	99-87-6	1–<5%
Alpha-Phellandrene	99-83-2	1–<5%
Beta-Pinene	127-91-3	1–<5%
Terpineol	8000-41-7	1–<5%
p-Mentha-1,3-diene	99-86-5	1–<5%
Myrcene	123-35-3	0.1–<1%
Terpinolene	586-62-9	0.1–<1%



The constituent ranges above are representative of one current commercial SDS and must not replace batch-specific GC/GC-MS data.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Inhalation

- Move the exposed person to fresh air.
- Keep at rest in a comfortable breathing position.
- Obtain medical attention if symptoms develop or persist.
- If breathing is difficult, oxygen should be administered only by trained personnel.

Skin Contact

- Remove contaminated clothing immediately.
- Rinse skin with water and wash thoroughly with soap.
- Do not use solvents to clean the skin.
- Obtain medical advice if irritation, redness or rash develops.
- Wash contaminated clothing before reuse.

Eye Contact

- Rinse immediately with clean water for at least 15 minutes.
- Remove contact lenses if present and easy to do.
- Continue rinsing with eyelids held open.
- Obtain medical attention if symptoms persist.

Ingestion

- Immediately contact a poison centre or doctor.
- Rinse the mouth.
- Do not induce vomiting.
- Never give anything by mouth to an unconscious person.
- Keep the affected person at rest.
- Aspiration into the lungs may cause severe chemical pneumonitis.

4.2 Most Important Symptoms and Effects

- Skin redness and irritation
- Allergic skin rash



- Headache or dizziness after excessive vapour exposure
- Nausea or gastrointestinal discomfort
- Coughing or breathing difficulty following aspiration
- Potential reproductive hazard after relevant exposure
- Chemical pneumonitis if swallowed and aspirated

4.3 Immediate Medical Attention

Treat symptomatically.

If swallowed, medical observation may be required because aspiration effects can be delayed.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water fog

5.2 Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet.

5.3 Special Hazards

The product is a flammable liquid.

Combustion may generate:

- Carbon monoxide
- Carbon dioxide
- Irritating smoke
- Unidentified organic decomposition products

5.4 Advice for Firefighters

- Wear self-contained breathing apparatus.
- Wear complete protective clothing.
- Cool exposed containers with water spray.



- Prevent contaminated firefighting water from entering drains.
 - Remove containers from the fire area where safe.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

- Remove all ignition sources.
- Ensure adequate ventilation.
- Avoid breathing vapours.
- Avoid skin and eye contact.
- Wear suitable protective gloves and eye protection.
- Use non-sparking equipment.
- Take precautions against static discharge.

6.2 Environmental Precautions

- Prevent entry into drains, waterways, soil and groundwater.
- Avoid environmental release.
- Notify relevant authorities if a significant quantity enters waterways.

6.3 Containment and Cleaning

- Contain immediately using sand, earth, vermiculite or inert absorbent.
 - Collect into a closed, labelled waste container.
 - Use non-sparking tools.
 - Clean the remaining surface using detergent and water.
 - Do not flush into drains.
 - Dispose of according to applicable regulations.
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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- Keep away from heat, sparks and open flames.
- Do not smoke.
- Use explosion-proof ventilation where required.
- Ground and bond transfer containers.
- Use only non-sparking tools.
- Avoid breathing vapour or mist.



- Avoid contact with skin and eyes.
- Wear suitable personal protective equipment.
- Do not eat, drink or smoke while handling.
- Wash thoroughly after use.
- Prevent environmental release.

7.2 Conditions for Safe Storage

- Store tightly closed in the original container.
- Store in a cool, dry and well-ventilated place.
- Protect from direct sunlight.
- Keep away from heat and ignition sources.
- Keep away from strong acids, alkalis and oxidising agents.
- Store locked up.
- Minimise container headspace.
- Keep out of reach of children.

Recommended Storage Temperature

15–25 °C

7.3 Specific End Use

Professional fragrance, cosmetic and flavour raw material, where permitted.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No occupational exposure limit is assigned to the complete essential oil.

Applicable exposure limits for individual constituents should be observed.

8.2 Engineering Controls

- Provide adequate general ventilation.
- Use local exhaust ventilation where vapours may accumulate.
- Use closed transfer systems where practicable.
- Provide eyewash and emergency washing facilities.
- Use explosion-protected equipment where required.

8.3 Respiratory Protection



Under normal handling with good ventilation, respiratory protection may not be required.

Where vapour exposure cannot be controlled, use:

- An approved respirator
- Organic-vapour cartridge
- Appropriate particulate filter where mist is generated

8.4 Hand Protection

Wear chemical-resistant gloves, such as:

- Nitrile rubber
- Butyl rubber
- Fluorinated rubber

8.5 Eye and Face Protection

Wear:

- Chemical safety glasses
- Tightly fitting goggles during splash risk
- Face shield during bulk transfer

8.6 Skin Protection

Wear:

- Protective clothing
- Long sleeves
- Closed footwear
- Chemical-resistant apron during bulk handling

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
Physical State	Liquid
Colour	Colourless to pale yellow
Odour	Characteristic, fresh and camphoraceous
Odour Threshold	Not determined
pH	Not determined



Property	Representative Information
Melting/Freezing Point	Not determined
Initial Boiling Point	Not determined
Flash Point	Approximately 42 °C
Flammability	Flammable liquid and vapour
Explosive Limits	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not relevant
Vapour Pressure	Not determined
Relative Density at 20 °C	0.900–0.930
Water Solubility	Practically insoluble
Solubility in Alcohol	Soluble
Viscosity	Not determined
Explosive Properties	Not classified as explosive
Oxidising Properties	Not classified as oxidising

A current supplier SDS reports a flash point of 42 °C and relative density of 0.9000–0.9300.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No significant reactivity hazard under normal conditions.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Hazardous Reactions

Hazardous reactions are not expected under normal use.

10.4 Conditions to Avoid

- Extreme heat
- Open flames
- Sparks
- Static discharge
- Prolonged exposure to air



- Direct sunlight
- Heating closed containers

10.5 Incompatible Materials

- Strong acids
- Strong alkalis
- Strong oxidising agents

10.6 Hazardous Decomposition Products

Fire or excessive heating may generate:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours
- Smoke

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

The complete substance is not classified for acute toxicity under the reviewed representative SDS.

Representative estimated acute oral toxicity:

ATE Oral: approximately 3,275 mg/kg

11.2 Skin Corrosion/Irritation

Skin Irritation Category 2

Causes skin irritation.

11.3 Serious Eye Damage/Irritation

The reviewed 2025 SDS does not classify the complete oil for serious eye irritation, although individual constituents may irritate the eyes.

11.4 Skin Sensitisation

Skin Sensitisation Category 1



May cause an allergic skin reaction.

11.5 Germ Cell Mutagenicity

Not classified based on available data.

11.6 Carcinogenicity

Not classified based on available data.

11.7 Reproductive Toxicity

Reproductive Toxicity Category 2

Suspected of damaging fertility or the unborn child, based on the constituent profile used in the representative classification.

11.8 STOT – Single Exposure

Not classified.

11.9 STOT – Repeated Exposure

Not classified.

11.10 Aspiration Hazard

Aspiration Hazard Category 1

May be fatal if swallowed and enters airways.

The toxicological classifications above follow the reviewed supplier SDS and may vary where the batch chemotype differs.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- Very toxic to aquatic life.
- Toxic to aquatic life with long-lasting effects.

12.2 Persistence and Degradability



Complete mixture-specific data are not available.

Individual terpene constituents may have varying biodegradation rates.

12.3 Bioaccumulative Potential

No complete substance-specific data are available.

Bioaccumulation of lipophilic terpene constituents cannot be excluded.

12.4 Mobility in Soil

No complete data available.

Certain constituents may adsorb to soil and sediment.

12.5 PBT and vPvB Assessment

The reviewed supplier SDS states that the material does not meet the PBT or vPvB criteria under REACH Annex XIII.

12.6 Endocrine-Disrupting Properties

No endocrine-disrupting properties were identified in the reviewed SDS.

12.7 Other Adverse Effects

Avoid uncontrolled release into:

- Surface water
- Groundwater
- Soil
- Wastewater systems

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Dispose of through an authorised chemical-waste contractor.
- Do not discharge into drains or the environment.
- Treat contaminated absorbents as hazardous chemical waste.
- Empty containers may retain flammable and hazardous residue.
- Do not cut, weld, drill or burn uncleaned containers.



- Recycle or dispose of packaging according to local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN 1197

14.2 UN Proper Shipping Name

EXTRACTS, LIQUID

For sea transport, the shipping description may include the technical name:

EXTRACTS, LIQUID (Alpha-Pinene), MARINE POLLUTANT

14.3 Transport Hazard Class

Class 3 – Flammable Liquid

14.4 Packing Group

Packing Group III

14.5 Environmental Hazards

- Environmentally hazardous substance
- Marine pollutant under the representative IMDG classification

14.6 Transport Modes

Transport Mode	Classification
ADR/RID/ADN	UN 1197, Extracts, Liquid, Class 3, PG III
IMDG	UN 1197, Extracts, Liquid, Class 3, PG III, Marine Pollutant
ICAO/IATA	UN 1197, Extracts, Liquid, Class 3, PG III

A current supplier SDS classifies the material as UN 1197, Class 3, Packing Group III, with marine-pollutant status for IMDG transport.

14.7 Special Precautions

- Keep containers tightly closed and upright.
- Protect from heat and physical damage.



- Prevent leakage.
- Use compliant dangerous-goods packaging.
- Confirm the current batch flash point before shipment.
- Confirm carrier and destination-country requirements.

14.8 Maritime Transport in Bulk

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Applicable Regulations

Prepared with reference to:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EU) 2020/878
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EC) No. 1223/2009 – Cosmetic Products
- Commission Regulation (EU) 2023/1545
- Applicable IFRA Standards
- ADR, IMDG and ICAO/IATA transport regulations

15.2 Regulatory Identity

Parameter	Details
Botanical Name	<i>Eucalyptus radiata</i> Sieber ex DC.
Botanical Synonym	<i>Eucalyptus australiana</i>
INCI Name	Eucalyptus Radiata Leaf/Stem Oil
CAS Number	92201-64-4
Alternative CAS	8000-48-4
EC Number	295-995-3
Substance Type	Natural Complex Substance / UVCB

15.3 Cosmetic Use

Use in cosmetics is subject to:

- Current IFRA requirements
- Batch-specific allergen declaration
- Finished-product safety assessment
- Applicable cosmetic legislation



- Correct final-product labelling

15.4 Potential Fragrance Allergens

Depending on the batch, the oil may contain:

- Limonene
- Linalool
- Citral
- Geraniol
- Alpha-pinene oxidation products
- Terpineol-related constituents

The batch-specific allergen declaration must be used for exact calculations.

SECTION 16: OTHER INFORMATION

16.1 Full Hazard Statements

- H226: Flammable liquid and vapour.
- H302: 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.
- H331: Toxic if inhaled.
- H361: Suspected of damaging fertility or the unborn child.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long-lasting effects.
- H411: Toxic to aquatic life with long-lasting effects.
- H412: Harmful to aquatic life with long-lasting effects.

Some statements apply to individual naturally occurring constituents and not necessarily to the complete oil.

16.2 Document Information

Parameter	Details
Product Name	Narrow Leaf Peppermint Essential Oil
Correct Identity	Eucalyptus Radiata Essential Oil
Botanical Name	<i>Eucalyptus radiata</i>
CAS Number	92201-64-4



Parameter	Details
Alternative CAS	8000-48-4
EC Number	295-995-3
Issue Date	21 July 2026
Revision	1.0
Document Type	Material Safety Data Sheet

16.3 Important Product Notice

This document applies to:

Undiluted Eucalyptus Radiata Essential Oil, CAS 92201-64-4, sold under the common name Narrow Leaf Peppermint Oil or Narrow Leaf Peppermint Gum Oil.

It does not apply unchanged to:

- Mentha peppermint oil
- Peppermint oil from *Mentha piperita*
- Eucalyptus globulus oil
- Eucalyptus radiata diluted in ethanol
- Eucalyptus radiata diluted in DPG or TEC
- Blends containing this oil
- Rectified, fractionated or modified grades

Such preparations require their own mixture-specific classification.

16.4 Disclaimer

The information in this MSDS is based on current supplier documentation and representative regulatory information believed to be reliable.

Essential oils are Natural Complex Substances and their chemical composition may vary according to:

- Botanical variety
- Geographic origin
- Climate
- Harvest season
- Plant maturity
- Distillation conditions
- Storage
- Oxidation
- Production batch



The current original batch-specific manufacturer SDS must be reviewed before regulatory submission, workplace release or dangerous-goods shipment.

Where the original manufacturer SDS differs from this document, the original manufacturer SDS takes precedence.

AUTHORISED BY

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