SAFETY DATA SHEET (SDS)

Essential Oil: Manuka
SDS Created: 12.09.2026

Revision Date: 12.09.2028

SECTION 1: : IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Product identifier

Product name: Manuka Essential Oil
Botanical / Scientific name: *Leptospermum scoparium* J.R.Forst. & G.Forst.
INCI name: LEPTOSPERMUM SCOPARIUM BRANCH/LEAF OIL
CAS No.: 223749-44-8
EC No.: 425-630-7
Product type: 100% Pure and Natural Essential Oil
Brand: AMYRON

1.2 Other means of identification

Item number/size: AM-001-370– 15 ml.
1.3 Recommended use of the chemical and restrictions on use:

Aromatherapy, Natural Perfumery

1.4 Supplier's details:

Company name: Hamid Masoudi -D.I,
Company address: Via Capolago 1, 20133 Milan, Italy. Company contact: +39-3200464074 www.amyron.it

sales@amyron.it

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

N/A

2.2 GHS label elements, including precautionary statements

Signal Word	Hazardous Statement	Precautionary	Statement Hazard
N/A	H315, H317	P233, P240, P241, P280	H315, H317

2.3 Other hazards that do not result in classification

- Hazard Statements:
  - H315: Causes skin irritation
  - H317: May cause an allergic skin reaction
- Precautionary Statements:
  - P233: Keep container tightly closed.
  - P240: Ground/bond container and receiving equipment.
  - P241: Use explosion-proof electrical/ventilating/lighting equipment.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Product name: Manuka Essential Oil
Botanical / Scientific name: *Leptospermum scoparium* J.R.Forst. & G.Forst.
Botanical family: Myrtaceae
INCI name: LEPTOSPERMUM SCOPARIUM BRANCH/LEAF OIL
CAS No.: 223749-44-8
EC No.: 425-630-7
Plant part used: Leaves and terminal branches / twigs
Method of extraction: Steam distillation
Substance type: Natural complex substance (UVCB)
Concentration: 100%
Additives / solvents / carrier oils: None

The oil is obtained by steam distillation of the leaves and terminal branches of *Leptospermum scoparium*. The Australian TGA compositional guideline specifies that no other extraction process or ingredients are added.

Typical natural composition

Naturally occurring constituent	Typical concentration
α-Cubebene	2.0–7.0%
α-Copaene	2.5–7.5%
β-Selinene	1.0–6.0%
α-Selinene	2.0–7.0%
Calamenene	9.0–18.0%
δ-Cadinene	3.0–8.0%

Naturally occurring constituent	Typical concentration
Cadina-1,4-diene	3.0–8.0%
Flavesone	3.0–8.0%
iso-Leptospermone	2.0–7.0%
Leptospermone	10.0–20.0%
Total triketones	**≥25%**

Total triketones: Sum of flavesone, iso-leptospermone and leptospermone.

These are characteristic ranges for triketone-rich Manuka oil. The actual composition may vary according to geographical origin, chemotype, harvest and distillation conditions; the GC analysis/Certificate of Analysis of the specific batch shall prevail. The ranges above correspond to the official TGA compositional guideline.

3.2 Mixtures

Not applicable.

The product is a 100% pure natural essential oil and is treated as a natural complex substance rather than an intentionally formulated mixture.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures (of Substance)
Eye contact:
Check for and remove any contact lenses. Flush with water for 15 minutes. If symptoms persist get medical attention.
Skin Contact:
No harmful effect with normal skin. If skin irritation does occur, wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
Inhalation:
Not likely to occur under normal conditions of use. If symptoms occur, move to fresh air and obtain medical advice.
Ingestion:
Not an expected route of exposure. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with milk or water and consult a doctor. Keep the exposed person at rest. Do NOT force vomiting unless directed to do so by medical personnel. Seek immediate medical attention and show the Substance's label to medical personnel.

4.2 Most important symptoms and effects, both acute and delayed (of Substance) Eye contact:
May cause eye irritation and corneal damage if not immediately rinsed out.
Skin Contact:

Repeated contact may cause allergic dermatitis.

Inhalation:

Breathing high concentrations of vapor may cause anesthetic effects.

Ingestion:

Not an expected route of exposure.

4.3 Indication of any immediate medical attention and special treatment needed (of Substance)

None known.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 Flash point

100° C

2 Extinguishing media

Suitable extinguishing media: sprayed water or water mist, alcohol-resistant foam, multipurpose ABC powder, BC powder, carbon dioxide (CO2) Unsuitable extinguishing media: water jet (straight stream).

5.3 Specific hazards arising from the chemical None known.

5.4 Special protective actions for firefighters

Use self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Stop leak if you can do so without risk. Consult safety measures listed under Sections 7 and 8.

For fire-fighters: Fire-fighters will be equipped with suitable personal protective equipment (See Section 8). High temperature may increase the pressure inside the container—cool the container by sprinkling water. Avoid breathing emitted vapors.

6.2 Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, or diatomaceous earth in drums for waste disposal. Avoid allowing product to reach sewage system or any waterways. Inform respective authorities in case of seepage into sewage system or waterways.

6.3 Methods and material for containment and cleaning up

Absorb spill with non-combustible matter (such as detergent--do not use solvents) and transfer to contain

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid unintentional contact with skin surfaces. Wear suitable protective clothing. Avoid inhalation. Ensure good ventilation or exhaust in workplace. Do not allow contact with eyes. Always wash hands after handling. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed glass containers, away from heat, light and other sources of ignition. Store in cool area.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

OSHA TWA: None established OSHA STEL: None established ACGIH TWA: None established ACGIH STEL: None established NOHSC TWA: None established NOHSC STEL: None established

8.2 Appropriate engineering controls

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

8.3 Individual protection measures
Personal protective equipment:
Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place away from the work area. Never eat, drink, or smoke during use. Remove and wash contaminated clothing before re-using.
Eye/face protection:
Avoid contact with eyes. Use eye protectors (safety goggles in accordance with standard EN166) designed to protect against liquid splashes.
Hand protection:
Wear suitable protective gloves (resistant to chemical agents in accordance with standard EN374) in the event of prolonged or repeated skin contact. Type of gloves recommended: Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR)) or PVA (Polyvinyl alcohol).
Body protection:
Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9: PHYSICAL CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Value / Description
Physical state	Liquid
Appearance	Clear, mobile liquid
Colour	Colourless to pale yellow / yellow
Odour	Sweet, characteristic, herbaceous-woody
Odour threshold	Not determined
Melting point / freezing point	< −25 °C, typical reference value
Boiling point or initial boiling point and boiling range	Approx. 230–285 °C, typical reference range
Flammability	No data available for classification from this parameter alone
Lower explosion limit	Not determined
Upper explosion limit	Not determined
Flash point	**100 °C**
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
pH	Not applicable – non-aqueous product
Kinematic viscosity	Not determined
Solubility in water	Very slightly soluble / practically insoluble
Water solubility	Approx. 42.3 mg/L at 20 °C, reference value
Solubility in alcohol	Soluble
Partition coefficient n-octanol/water (log Pow)	Reference value: approx. 1.79 at 21 °C
Vapour pressure	Not determined

Property	Value / Description
Relative density at 20 °C	**0.950–0.987**
Relative vapour density	Not determined
Particle characteristics	Not applicable – liquid

The current 2026 Florihana specification gives **density 0.950–0.987 at 20 °C**, **refractive index 1.490–1.510** and **flash point >100 °C**. Older East Cape Manuka specifications give boiling point 230–285 °C, melting point below −25 °C and water solubility around 42.3 mg/L.

Additional analytical characteristics

Property	Specification
Refractive index at 20 °C	**1.490–1.510**
Relative density at 20 °C	**0.950–0.987**
Optical rotation	Not determined
GC profile	Conforms to product specification
Total triketone content	Typically ≥25%
Main characteristic constituents	Calamenene, leptospermone, flavesone, iso-leptospermone

An independent government compositional guideline gives a narrower reference range of **0.95–0.98 g/mL at 20 °C** for density and **1.4960–1.5060** for refractive index.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not expected under normal conditions of use and storage.
Oxidising properties: Not expected to have oxidising properties.
Gases under pressure: Not applicable.
Aerosols: Not applicable.
Self-reactive substances and mixtures: Not applicable.
Organic peroxides: Not applicable.
Corrosive to metals: No data available.

9.2.2 Other safety characteristics

Evaporation rate: Not determined.
Surface tension: Not determined.
VOC content: Not determined.
Miscibility with water: Not miscible / only very slightly soluble.
Conductivity: Not determined.



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive.

10.2 Chemical stability

This substance is stable under the recommended handling and storage conditions in Section 7.

10.3 Possibility of hazardous reactions

When exposed to high temperatures, the substance may release hazardous decomposition products, such as carbon monoxide, carbon dioxide, fumes, and nitrogen oxide.

10.4. Conditions to avoid

None known.

10.5 Incompatible materials

Alkali metals, ammonia, oxidizing agents, peroxides strong inorganic acids.

10.6 Hazardous decomposition products

The thermal decomposition may release/form carbon monoxide (CO) and carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Substance
Acute toxicity: No data available.
Skin corrosion/irritation: No data available.
Serious eye damage/irritation No data available
Respiratory sensitization: not specified
Germ cell mutagenicity: Not specified
Carcinogenicity:
IARH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity: Not specified
STOT-single exposure: Not specified
STOT-related exposure: Not specified
Aspiration hazard: Not specified

11.2 Information on the likely routes of exposure Skin/scalp contact.
11.3 Symptoms related to the physical, chemical, and toxicological characteristics

None known. Irritation of the eye if exposed. Redness of the skin if irritated.

11.4 Delayed and immediate effects and also chronic effects from short-term and long-term exposure

Not specified 11.6 Interactive effects Not specified

11.7 Where specific chemical data are not available Not specified
11.8 Substances Not specified

11.9 Substances verses ingredient information Not specified

11.10 Other Information None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Info summery of Ecological information Balance of data on substance as a whole, not determined.

12.2 Eco toxicological properties of specific substances See each category below for specific substances

12.3 Toxicity Acute fish toxicity:

LC50 / 96 HOUR – No data available
Toxicity to aquatic plants – No data available Toxicity to microorganisms – No data available Toxicity threshold – No data available

12.4 Persistence and degradability Biodegradation is expected
12.5 Bio-accumulative potential Bioaccumulation is unlikely
12.6 Mobility in soil Unknown
12.7 Other adverse effect Avoid exposure to marine environments and waterways

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not pour into drains or waterways. Observe all federal, state, and local environmental regulations. Member Statespecific and Communityspecific provisions must be considered. Considering the relevant known environmental and human health hazards of the materials, review and implement appropriate technical and procedural wastewater and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental release. This may include destructive techniques for waste and wastewater. In extreme situations, contact a licensed professional waste disposal service to dispose of this material.

Waste: Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC. Do not pour into drains or waterways. Waste management is carried out without endangering human health, without harming the environment, and in particular Page 6 of 7 ITEM AM-001-320– 15 ml.: clove - Organic without risk to water, air, soil, plants, or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

Not regulated

14.2 UN Proper shipping name

Not regulated

14.3 Transportation hazard classes

Road (U.S. DOT): Not regulated Air (IATA): Not regulated
Sea (IMDG): Not regulated

14.4 Packing group, if applicable

N/A

14.5 Environmental hazards

Substance not determined. Avoid exposure to waterways.

14.6 Special precautions for user

Not specified

14.7 Transport in bulk according to Annex II of MARPOL 73/78˚and IBC Code

Not specified

14.8 Additional transport information

Not specified

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Ensure compliance with local regulations.

15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out for this product

SECTION 16: OTHER INFORMATION

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