

Material Safety Data Sheet (MSDS)

Comfrey Oil

Purefx

92 Williams Street, Kaiapoi 7630, Christchurch, New Zealand

Email: info@purefx.co.nz Phone: +64 03 327 6638

Emergency Contact: 111 (New Zealand Emergency Services)

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1 Identification

1.1 Product Identifier

Product Name: Comfrey Oil

Other Names: Symphytum officinale Oil, Comfrey Leaf/Root Extract

Recommended Use: Cosmetic ingredient for topical skin care products, such as balms and salves for soothing skin.

Restrictions on Use: For external use only. Not for ingestion. Avoid use on broken skin or near eyes. Not recommended for prolonged use due to potential pyrrolizidine alkaloid content.

1.2 Supplier Details

Company: Purefx

Address: 92 Williams Street, Kaiapoi 7630, Christchurch, New Zealand

Phone: +64 03 327 6638

Email: info@purefx.co.nz

Emergency Phone: 111 (New Zealand Emergency Services)

2 Hazard(s) Identification

Classification: Not classified as hazardous under the Hazardous Substances and New Organisms Act 1996 (HSNO) or GHS Revision 7.

Signal Word: None

Hazard Statements: None

Precautionary Statements:

- P102: Keep out of reach of children.
- P264: Wash skin thoroughly after handling.
- P280: Wear protective gloves if prolonged handling.
- P305+P351: If in eyes, rinse cautiously with water for several minutes.
- P333+P313: If skin irritation or rash occurs, get medical advice/attention.

Other Hazards: May cause mild skin irritation or allergic reactions in sensitive individuals. Contains trace amounts of pyrrolizidine alkaloids, which may be harmful if

ingested or used long-term. Avoid prolonged sun exposure after application due to potential photosensitivity.

3 Composition/Information on Ingredients

- Chemical Name: Comfrey Oil (Symphytum officinale Extract in carrier oil, e.g., olive oil)
- CAS Number: 84696-05-9 (Symphytum officinale Extract)
- Concentration: Proprietary (non-hazardous, extract in carrier oil)
- Impurities: Trace pyrrolizidine alkaloids (below hazardous thresholds)

Note: This product is a natural extract in a carrier oil and does not contain hazardous substances above threshold concentrations requiring disclosure under HSNO regulations.

4 First-Aid Measures

4.1 Inhalation

Not applicable; product is not volatile under normal conditions. If fumes cause discomfort, move to fresh air.

4.2 Skin Contact

Wash with soap and water. If irritation or allergic reaction occurs, discontinue use and seek medical advice.

4.3 Eye Contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. If irritation persists, seek medical attention.

4.4 Ingestion

Rinse mouth. Do not induce vomiting. Seek medical advice immediately if ingested due to potential pyrrolizidine alkaloid content.

Most Important Symptoms: Mild skin irritation, allergic reactions, or photosensitivity in sensitive individuals.

Advice to Physicians: Treat symptomatically. Consider potential for allergic dermatitis or photosensitivity. Monitor for signs of pyrrolizidine alkaloid toxicity if ingested.

5 Fire-Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry powder, foam, or water mist.

Unsuitable Extinguishing Media: High-pressure water jet.

Specific Hazards: May produce smoke and carbon oxides if ignited.

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 Accidental Release Measures

Personal Precautions: Wear gloves and eye protection to avoid skin or eye contact. Ensure adequate ventilation.

Environmental Precautions: Prevent large quantities from entering waterways to avoid environmental contamination.

Cleanup Methods: Absorb with inert material (e.g., sand, vermiculite) and place in suitable containers for disposal. Clean area with soap and water.

7 Handling and Storage

7.1 Handling

Avoid contact with eyes, prolonged skin contact, or use on broken skin. Use in well-ventilated areas. Avoid prolonged sun exposure after application due to potential photosensitivity.

7.2 Storage

Store in a cool, dry, well-ventilated place away from direct sunlight and heat sources. Keep container tightly closed. Store below 25°C.

8 Exposure Controls/Personal Protection

Exposure Limits: No occupational exposure limits established for Comfrey Oil or its carrier oil.

Engineering Controls: Ensure adequate ventilation during handling.

Personal Protective Equipment:

- Eye Protection: Safety glasses recommended if splashing is possible.
- Skin Protection: Gloves (e.g., nitrile) for prolonged handling.
- Respiratory Protection: Not required under normal conditions.

9 Physical and Chemical Properties

- Appearance: Yellow to greenish oily liquid
- Odour: Characteristic herbal scent
- pH: Not applicable (oil-based)
- Melting/Freezing Point: <0°C
- Boiling Point: >200°C (decomposes before boiling)

- Flash Point: >100°C (typical for carrier oils)
- Solubility: Insoluble in water; soluble in oils and organic solvents
- Specific Gravity: 0.900-0.95 g/cm³

10 Stability and Reactivity

Stability: Stable under recommended storage conditions.

Reactivity: Non-reactive under normal conditions.

Conditions to Avoid: Excessive heat, direct sunlight, open flames.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides and smoke may be produced during combustion.

11 Toxicological Information

Acute Toxicity: Not classified as toxic. Low oral toxicity; not intended for ingestion due to trace pyrrolizidine alkaloids.

Skin Corrosion/Irritation: May cause mild irritation or allergic reactions in sensitive individuals.

Eye Damage/Irritation: May cause mild irritation if contact occurs.

Respiratory/Skin Sensitization: Potential for skin sensitization or photosensitivity in some individuals.

Carcinogenicity: No components classified as carcinogenic.

12 Ecological Information

Ecotoxicity: Not expected to be harmful to aquatic life in small quantities.

Persistence/Degradability: Biodegradable.

Bioaccumulation: Low potential for bioaccumulation.

Mobility in Soil: Low mobility due to oil-based nature.

13 Disposal Considerations

Disposal Methods: Dispose of in accordance with local regulations. Small quantities may be absorbed and disposed of as solid waste.

Container Disposal: Recycle or dispose of containers in accordance with local regulations.

14 Transport Information

UN Number: Not applicable (non-hazardous).

Proper Shipping Name: Not applicable.

Transport Hazard Class: None.

Packing Group: None.

Marine Pollutant: No.

Special Precautions: None required.

15 Regulatory Information

Applicable Regulations:

- Hazardous Substances and New Organisms Act 1996 (HSNO Act)
- Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017
- Health and Safety at Work Act 2015

HSNO Approval: Not required for non-hazardous substances.

GHS Compliance: Complies with GHS Revision 7 as implemented in New Zealand.

16 Other Information

Date of Issue: September 25, 2025

Revision History: Initial issue.

Disclaimer: The information provided in this MSDS is accurate to the best of Purefx's knowledge. No warranty is expressed or implied regarding the accuracy or completeness of this information. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Contact: Purefx, info@purefx.co.nz, +64 03 327 6638