



## Certificate of Analysis

<b>Tamanu oil</b>	
<b>Best Before Date</b>	<b>February 2026</b>
<b>Batch</b>	<b>4534301</b>

<b>Common name</b>	:	Cold-pressed oil of Calophyllum
<b>Botanical name</b>	:	Calophyllum Inophyllum
<b>Part of plant used</b>	:	cold pressed from the nut kernels
<b>Appearance</b>	:	green liquid
<b>Specific gravity</b>	:	0.921 @ 20°C
<b>Optical rotation</b>	:	2 @ 20°C
<b>Refractive index</b>	:	1.43 @ 20°C
<b>palmitic acid:</b>	:	12%
<b>linoleic acid:</b>	:	32%
<b>oleic acid:</b>	:	46%
<b>stearic acid:</b>	:	16%
<b>linolenic acid:</b>	:	1.20%
<b>arachidic acid:</b>	:	1.50%
<b>myristic acid:</b>	:	0.82%
<b>gondoic acid:</b>	:	0.60%
<b>palmitoleic acid:</b>	:	0.82%
<b>Acid value</b>	:	49.10 mg KOH/g
<b>Free fatty acid</b>	:	25g/100g
<b>Saponification value</b>	:	195
<b>Iodine value</b>	:	85 gI2/100g
<b>Peroxide value</b>	:	2.2 mEqO2/kg
	:	
	:	



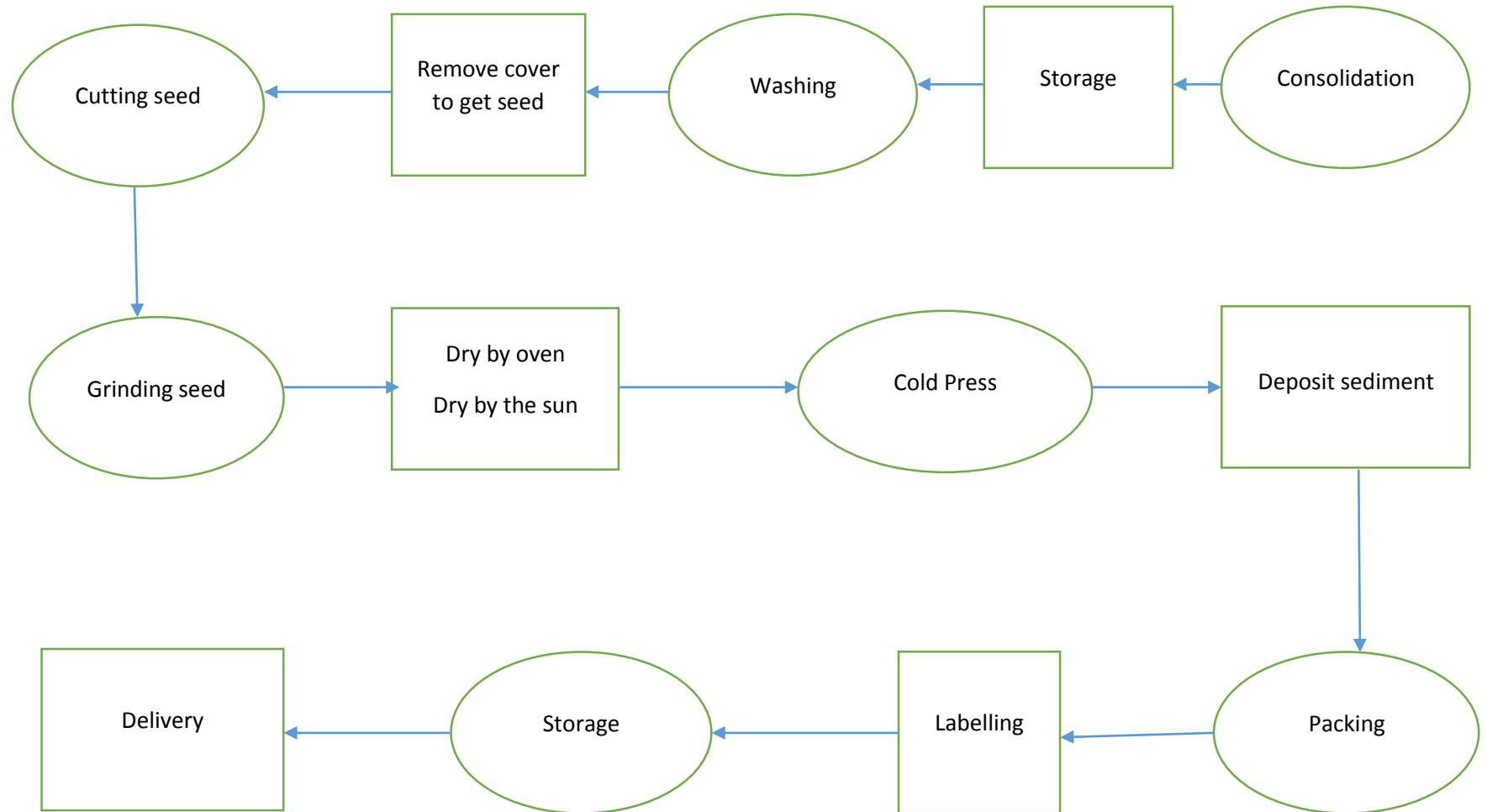
## ***ALLERGENS STATEMENT***

**Product: TAMANU OIL**

<b>INGREDIENTS</b>	<b>YES</b>	<b>NO</b>
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Crustaceans and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Eggs and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fish and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Peanuts and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Soybeans and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Milk and products thereof (including lactose)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nuts i.e. Almond, Hazelnut, Walnut, Cashew, Pecan nut, Brazil nut, pistachio nut, Macadamia nut and Queensland nut, and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Celery and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mustard and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sesame seeds and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lupine and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Molluscs and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulphur dioxide and sulphites at concentration of more than 10 mg/kg or 10 mg/litre expressed as SO <sub>2</sub>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Date : 19/06/2018

## Tamanu Processing flowchart





14 May 2020

**To Whom it may concern.**

## **GMO AND NATURAL STATEMENT**

### **Tamanu**

We hereby certify that our product has not been derived from and does not contain components from Genetically Modified Origin (GMO). It complies with EU and US regulations. It is 100% natural.

And the asepticized process is not treated with steam sterilization, ionizing radiation, ethylene oxide or other fumigants and sterilants. It is suitable for human.

Version 2.0 Revision

Date: April 22,2020

Print Date: November 4, 2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Tamanu Oil - Virgin (Vietnam)
Botanical name	:	Calophyllum inophyllum
INCI name	:	Calophyllum Inophyllum Seed Oil
CAS #	:	223748-12-7
Country of Origin	:	Vietnam
Product use	:	Domestic and Industrial
Supplier	:	Madar Corporation Limited
Address	:	19 - 20 Sandleheath Industrial Estate, Fordingbridge, SP6 1PA
Telephone number	:	+ 44 (0)1425 655 555

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

### GHS Classification

Not classified.

### GHS Label elements, including precautionary statements

Signal: Not applicable

### Hazard statement(s)

Not applicable.

### Precautionary statement(s)

Not applicable.

## 3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Organic Calophyllum Inophyllum Seed Oil	223748-12-7	607-323-1	100 %

NOTE: No known ingredient of this product is classified hazardous.

## 4. FIRST AID MEASURES

### Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

### Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

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### Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

## Ingestion

Seek medical attention or contact local poison control center.

## 5. FIRE FIGHTING MEASURES

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### Suitable extinguishing

**media** Foam. Dry Powder.

Carbon dioxide. **Unsuitable**

**extinguishing media** Water

spray, water jet.

### Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

### Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions, protective equipment and emergency procedures.

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### Methods and materials for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

## 7. HANDLING AND STORAGE

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### Precautions for safe handling

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

### Conditions for safe storage, including any incompatibilities

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Eyes

Use tightly sealed goggles.

### Skin

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

### Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance : Dark green to brown mobile liquid.

Odor : Slightly green, nutty scent.

Flash point : >280 °C

Relative density : 0.910 – 0.950 @ 20°C

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Solubility (ies) : Insoluble in water.  
Refractive index : 1.47 - 1.49 @ 25°C

## 10. STABILITY AND REACTIVITY

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### Reactivity

This material presents no significant reactivity hazard.

### Chemical stability

Chemically stable.

### Possibility of hazardous

**reactions** Hazardous

polymerization will not occur.

### Conditions to avoid

Avoid sparks, flame and other heat sources.

### Incompatible materials

Strong oxidizing agents. Mineral acids. Bases. Inorganic alkalis.

## 11. TOXICOLOGICAL INFORMATION

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### Acute

**toxicity** Not

available.

### Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

### Eye contact

Possible irritation should be prevented by wearing safety glasses.

## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

Avoid any pollution of ground, surface or underground water.

### Persistence and degradability

Not available.

### Bio - accumulative potential

Not available.

### Mobility in

**soil** Not

available.

### Other adverse effects

Not available.

## 13. DISPOSAL CONSIDERATION

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Dispose of product in accordance with local, state or provincial and federal regulations.  
Check with local municipal authority to ensure compliance.

## 14. TRANSPORT INFORMATION

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### US DOT Shipping Description (Land)

Not regulated.

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### IMO-IMDG Shipping Description (Sea)

Not regulated.

**IATA Shipping Description (Air)**

Not regulated.

**15. REGULATORY INFORMATION**

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**GHS Hazard Statements**

Not available.

**GHS Precautionary Statements**

Not available

**16. OTHER INFORMATION**

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Revision date : April 22,2020





## TECHNICAL DATA SHEET

### Identification of the preparation

Commercial description:	TAMANU OIL
Process summary:	Hand-collect kernels from wild Tamanu bush are sun-dried. The oil is extracted via cold pressing, purified by filtration.
Properties:	Active for wound healing.

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### Information on the ingredients

<u>Chemical description:</u>	Tamanu Oil
<u>Identification:</u>	INCI : Calophyllum inophyllum N ° CAS : 241148-25-4 N ° EINECS : 310-127-6

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### Physico-chemical characteristics

<u>Physical data:</u>	Color : yellow to green Scent: nutty & distinctive Appearance: Clear oily liquid, solid under 20 °C
<u>Chemical data:</u>	Fatty acids, phytosterols and Calophylloid molecules

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### Formulation

Use level is 5-20% for skin care products and 2-5% for make-up products. Warming the oil to 24°C is necessary before production.

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Specific gravity	: 0.915 @ 20oC
Optical rotation	: -2° @ 20oC
Refractive index	: 1.41 @ 20°C

palmitic acid:	: 14.4%
linoleic acid:	: 34.5%
oleic acid:	: 46.1%
stearic acid:	: 16.4%
linolenic acid:	: 1.8%
arachidic acid:	: 1.4%
myristic acid:	: 0.8%
gondoic acid:	: 0.4%
palmitoleic acid:	: 0.2%
peroxide value	: Less than 10 meqO <sub>2</sub> /kg

This information is certified exact in the current state of our knowledge.



*10 October 2021*

## **VEGAN & VEGETARIAN STATEMENT**

**To Whom it may concern.**

We – hereby certify that our products TAMANU OIL comply with a vegan or vegetarian diet. It contain no animal ingredients or animal by - products, use no animal ingredients or by-products in the manufacturing process, and are not tested on animals.