



CERTIFICATE OF ANALYSIS

MATERIAL	HO WOOD OIL CHINESE
EINECS CAS NUMBER	91745-89-0
CAS NUMBER	8022-91-1
EC NUMBER	294-760-2
BATCH	4344404
BEST BEFORE END	DECEMBER 2021

Appearance	Clear, bright, colourless liquid
Odour	Characteristic of Ho
Optical Rotation @ 20°C	-17.85
Specific Gravity @ 20°C	0.857
Refractive Index @ 20°C	1.4640
Main Peak	98.90%
Flashpoint	81°C
Solubility	Soluble in ethanol

Storage

Original unopened container, at ambient temperature, under dry conditions and away from light. The shelf life is not valid out of the mentioned conditions.

Handling

According to IFRA Code of Practice.

Recommended Uses

Multiple uses.

Caution

Concentrated product for industrial use avoid contact with eyes and mucous. Do not drink.



ALLERGEN LISTING

MATERIAL NAME: HO WOOD OIL

INGREDIENT	CAS No.	% TOTAL
Alpha-Isomethylionone	127-51-5	A
Amyl Cinnamal	122-40-7	A
Amylcinnamyl Alcohol	101-85-9	A
Anise Alcohol	105-13-5	A
Benzyl Alcohol	100-51-6	A
Benzyl Benzoate	120-51-4	A
Benzyl Cinnamate	103-41-3	A
Benzyl Salicylate	118-58-1	A
Butylphenyl Methylpropional (Lilial)	80-54-6	A
Cinnamal	104-55-2	A
Cinnamyl Alcohol	104-54-1	A
Citral	106-26-3	A
	141-27-5	A
	5392-40-5	A
Citronellol	106-22-9	A
	1117-61-9	A
	141-25-3	A
	6812-78-8	A
	68916-43-8	A
	7540-51-4	A
Coumarin	91-64-5	A
Eugenol	97-53-0	A
Evernia Furfuraceae (Tree Moss) Extract	90028-67-4	A
Evernia Prunastri (Oak Moss) Extract	90028-68-5	A
Farnesol	4602-84-0	A
Geraniol	106-24-1	0.40
Hexyl Cinnamal	101-86-0	A
Hydroxycitronellal	107-75-5	A
Hydroxyisohexyl 3-Cyclohexene Carbocaldehyde (Lyral)	31906-04-4	A
Isoeugenol	97-54-1	A
Limonene	138-86-3	A
	5989-27-5	0.20
	5989-54-8	A
Linalool	126-90-9	A
	126-91-0	A
	78-70-6	99.00
Methyl 2-Octynoate	111-12-6	A

* A denotes absent

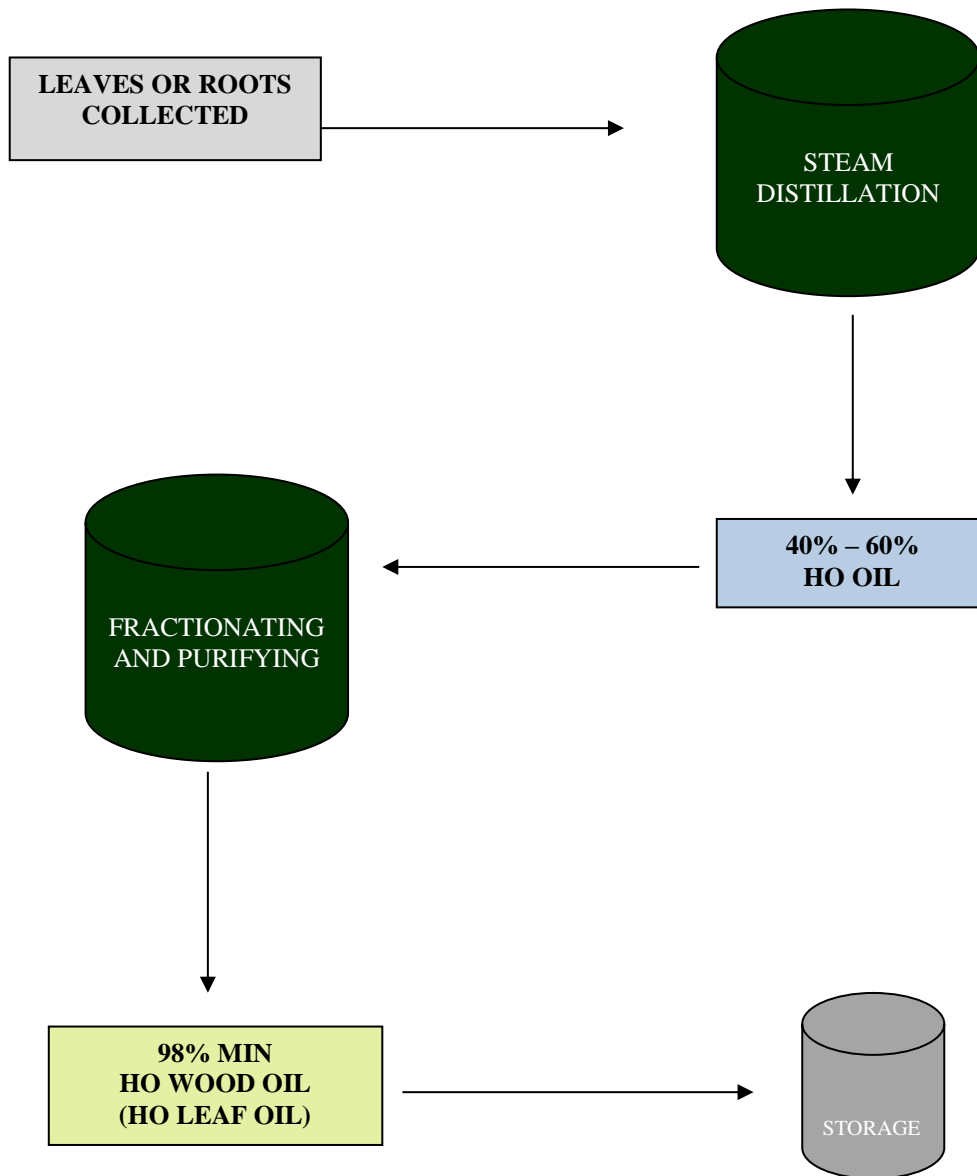
The information contained herein is true and accurate to the best of our knowledge.

We will not therefore accept liability for misuse of this data.

BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk

PROCESSING – HO WOOD OIL
FLOW CHART





GMO DECLARATION

MATERIAL	HO WOOD OIL
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To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.



IFRA CONFORMITY CERTIFICATE
TRADE NAME: HO WOOD OIL

REVISION: 29.06.2016

Product Name	HO WOOD OIL
INCI Name	Cinnamomum camphora linalooliferum wood oil
EINECS CAS Number	91745-89-0
CAS Number	8022-91-1
EC Number	294-760-2

We certify that the above substance is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), 48th Amendment to the IFRA Code of Practice (published June, 2015). It does not appear in the IFRA list of standards and so no information is available on its use in the IFRA Classes:

IFRA Class(es) (See respective IFRA guidance for details)	Level of Use (%)*
-	-

*Actual use level or maximum use level.

The IFRA Standards are based on safety assessments by the Panel of Experts of the RESEARCH INSITUTE FOR FRAGRANCE MATERIALS (RIFM).

Recommendation: Information about presence and concentration of IFRA restricted/prohibited materials in the Ho Wood Oil is as follows:

IFRA Restricted Materials:

Ingredient Name	CAS No.	Concentration %
Geraniol	106-24-1	0.4

IFRA Prohibited Materials: None

Ingredient Name	CAS No.	Concentration %
-	-	-

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET
TRADE NAME: HO WOOD OIL

REVISION: 08.12.2017

1 Identification of the Substance/Mixture and of the Company/Undertaking		
1.1	Trade Name	HO WOOD OIL
	EINECS CAS Number	91745-89-0
	CAS Number	8022-91-1
	EC Number	294-760-2
1.2	Relevant Identified Uses of the Substance or Mixture and Uses Advised Against	Industrial, only for professional use.
1.3	Details of the Supplier of the Safety Data Sheet Approved Sellers	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA TEL: 01425 655555 EMAIL: sales@madarcorporation.co.uk Cosmetic Butters, Mystic Moments, New Directions, World of Moulds
1.4	Further Information Obtainable from	MADAR Corporation Limited

2 Hazards Identification

2.1 Classification of the Substance or Mixture:

Classification (EC No. 1272/2008)	Physical Hazards	Not classified.
	Health Hazards	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1B – H317
	Environmental Hazards	Not classified.
	Human Health	Causes serious eye irritation. May cause an allergic skin reaction. Causes skin irritation.

2.2 Label Elements:

Hazard Pictograms:



Signal Word	WARNING
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Hazard Statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary Statements:

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P262	Do not get in eyes, on skin, or on clothing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.



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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to. Continue rinsing.
P332+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Supplementary Precautionary Statements:

P261	Avoid breathing vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTRE/doctor if you feel unwell.
P321	Specific treatment (see medical advice on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container to local/regional/national/international regulations.

3 Composition/Information on Ingredients

3.1	Substances	Product Name	HO WOOD OIL
	Identification Number(s)	EINECS CAS Number	91745-89-0
		CAS Number	8022-91-1
		EC Number	294-760-2

4 First Aid Measures


4.1 Description of First Aid Measures:

Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
Ingestion	Give a few small glasses of water or milk to drink. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water. Continue rinsing for at least 10 minutes. Remove contaminated clothing. Get medical attention if any discomfort continues.
Eye Contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if any discomfort continues.

4.2	Most Important Symptoms and Effects, both Acute and Delayed	The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.
4.3	Indication of Immediate Medical Attention and Special Treatment Needed	No further information available at this time.

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5 Fire-fighting Measures		
5.1	Suitable Extinguishing Media	Use alcohol resistant foam, Carbon dioxide or dry powder to extinguish.
	Unsuitable Extinguishing Media	For safety reasons do not use full water jet.
5.2	Special Hazards Arising from the Substance or Mixture	This product burns with emission of toxic gases of carbonic Oxide.
5.3	Advice for Fire-fighters	Wear full protective clothing.
6 Accidental Release Measures		
6.1	Personal Precautions, Protective Equipment and Emergency Procedures	Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Avoid contact with skin and eyes. Avoid inhalation of vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
6.2	Environmental Precautions	Do not discharge into drains, water courses or onto the ground.
6.3	Methods and Material for Containment and Cleaning Up	Cover with inert, inorganic, non-combustible material (e.g. dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with local authority guidelines.
6.4	Reference to Other Sections	
7 Handling and Storage		
7.1	Precautions for Safe Handling	Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Provide eyewash station. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
7.2	Conditions for Safe Storage, Including any Incompatibilities	Store in a cool and well-ventilated place. Keep away from heat, sparks and open flame.
7.3	Specific End Use(s)	No further relevant information available.
8 Exposure Controls/Personal Protection		
8.1	Control Parameters	No information available.
8.2 Exposure Controls:		
Protective Equipment		
Appropriate Engineering Controls	Provide eyewash station. Provide adequate ventilation.	
Personal Protection	General protective and hygienic measures: Use personal protective equipment depending on concentration and amount of hazardous substance. Keep away from foodstuffs, beverages and feed. Immediately remove all	

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	soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.
Eye/Face Protection	Approved safety goggles.
Hand Protection	Chemical resistant gloves (PVC).
Other Skin and Body Protection	Wear apron or protective clothing in case of contact.
Hygiene Measures	Good personal hygiene procedures should be implemented.
Respiratory Protection	Generally unnecessary in a well-ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Environmental Exposure Controls	Avoid discharging into drains.

9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties:

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Floral.
Initial Boiling Point and Range	194 to 199°C
Flash Point(Closed Cup)	>77°C
Relative Density @ 20°C	0.8590 to 0.8670
Solubility(ies)	Insoluble in water.
Decomposition Temperature	>200°C
Viscosity @ 25°C	4.4 mPa s
Optical Rotation	-20.0 to -13.0

9.2 Other Information:

Refractive Index @ 20°C	1.4600 to 1.4640
Molecular Weight	154.25

10 Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under the prescribed storage conditions.
10.3 Possibility of Hazardous Reactions	No data available.
10.4 Conditions to Avoid	Avoid heat, flames and other sources of ignition.
10.5 Incompatible Materials	Strong oxidising agents.
10.6 Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂).

11 Toxicological Information

11.1 Information on Toxicological Effects:

Acute Toxicity – Oral	LD50 2.790 mg/kg, Oral, Rat.
Acute Toxicity – Dermal	LD50 5.610 mg/kg, Dermal, Rabbit.
Acute Toxicity – Inhalation	LC50 >3.2 mg/l, Inhalation, Mouse.
Skin Corrosion/Irritation	Skin irritation.
Serious Eye Damage/Irritation	Irritating to eyes.
Skin Sensitisation	Not sensitising.

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12 Ecological Information

12.1	Ecotoxicity	No data available.
12.2	Persistence and Degradability	The substance is readily biodegradable.
12.3	Bioaccumulative Potential	No data available.
12.4	Mobility in Soil	No data available.
12.5	Results of PBT and vPvB Assessment	No data available.
12.6	Other Adverse Effects	No data available.

13 Disposal Considerations

13.1	Waste Treatment Methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
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14 Transport Information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
14.1	UN Number	Not applicable.
14.2	UN Proper Shipping Name	Not applicable.
14.3	Transport Hazard Class(es)	No transport warning sign required.
14.4	Packing Group	Not applicable.
14.5	Environmental Hazards	No.
14.6	Special Precautions for User	Not applicable.
14.7	Transport in Bulk According to Annex II of MARPOL and the IBC Code	Not applicable.

15 Regulatory Information

15.1 Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture:

EU Legislation	Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 th December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	CHIP for everyone HSG228.

15.2 Chemical Safety Assessment:

Inventories	US - TSCA	Present.
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16 Other Information

16.1 Hazard Statements in Full:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.



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SPECIFICATION

MATERIAL	HO WOOD OIL
EINECS CAS NUMBER	91745-89-0
CAS NUMBER	8022-91-1
EC NUMBER	294-760-2
INCI NAME	Cinnamomum camphora linalooliferum wood oil
BOTANICAL NAME	<i>Cinnamomum camphora</i>
PLANT PART	Wood
ORIGIN	China

Appearance	Colourless to pale yellow liquid
Odour	Floral
O.R. @ 20°C	-20.0 to -13.0
S.G.@ 20°C	0.8590 to 0.8670
R.I. @ 20°C	1.4600 to 1.4640
Flashpoint	>77°C
Solubility	Soluble in ethanol

After this delay, the quality might be degraded even before use and must be checked.

Storage

Original unopened container, at ambient temperature, under dry conditions and away from light. The shelf life is not valid out of the mentioned conditions.

Handling

According to IFRA Code of Practice.

Recommended Uses

Multiple uses.

Caution

Concentrated product for industrial use avoid contact with eyes and mucous. Do not drink.



VEGETARIAN & VEGAN SUITABILITY STATEMENT

MATERIAL	HO WOOD OIL
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MADAR Corporation Ltd, can confirm from information received by our supplier that the above named material is suitable for Vegetarians and Vegans.

This information is valid when issued by MADAR Corporation Ltd. The information contained herein is true and accurate to the best of our knowledge. All information is valid until revisions are issued. We will not therefore accept liability for misuse of the data resulting in damage or loss.