Certificate of Analysis

PRODUCT IDENTIFICATION AND COMPOSITION

Product Name:	**Karanj Seed Essential Oil**
Product Code:	OEKARA
Batch Number:	4326911
Best Before Date:	June 2021

PHYSICAL AND CHEMICAL PROPERTIES

Test	Specification	Result
Appearance:	Yellow to dark yellow	Conforms
Odour:	Unpleasant characteristic	Conforms
Refractive Index @ 20°C:	1.4734-1.4790	Conforms
Acid Value:	NMT 20	Conforms
Iodine Value:	80 - 90	Conforms
Saponifiable Value:	185.0 - 195.0	Conforms
Unsaponifiable Matter:	3.0 - 5.0	Conforms

STORAGE CONDITIONS

Store in full, original, tightly closed container in a cool place, away from heat and direct sunlight.
To limit oxidation the contents of the container should all be used once opened. Otherwise the container should be tightly closed each time it is opened, and the oil re-tested before use.

IFRA Certificate
Karanja Seed Oil

INCI Name: *Pongamia pinnata* Pierre

We certify that the above compound is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA 48TH Amendment), provided it is used in the following class(es) at a maximum concentration level of :

IFRA Class(es) (See Annex for Details)	Max Level of Use (%)
Class 1(*)	No Limit(*)
Class 2	No Limit
Class 3A	No Limit
Class 3B	No Limit
Class 3C	No Limit
Class 3D	No Limit
Class 4A	No Limit
Class 4B	No Limit
Class 4C	No Limit
Class 4D	No Limit
Class 5	No Limit
Class 6(*)	No Limit(*)
Class 7A	No Limit
Class 7B	No Limit
Class 8A	No Limit
Class 8B	No Limit
Class 9A	No Limit
Class 9B	No Limit
Class 9C	No Limit
Class 10A	No Limit
Class 10B	No Limit
Class 11	No Limit

(*) IFRA would recommend that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings.

MATERIAL SAFETY DATA SHEET

Section 1 – Natural Cold Pressed Oils 1. KARANJ SEED OIL

MSDS Name : Natural Karanj Oil.

Section 2 – Composition, information on ingredients

CAS#	Chemical Name	Concentration
NA	**HERBAL BOTANICALS**	

Section 3 – Hazards Identification

Emergency Overview

Appearance: Pale yellow, liquid. Caution : The toxicological properties of this compound have not been full investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
Target Organs: None

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause irritation of digestive tract. The toxicological properties of this substance have not been full investigated.
Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been full investigated.
Chronic: No information found.

Section 4 – First Aid Measures

Eyes: Flush eyes with plenty of water at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk and water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

Section 5 – Firefighting Measures

General Information: As in any fire, wear self-contained breathing apparatus in pressure demand,**MSHA/NIOSH** (approved or equivalent) and protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media: Use water spray,dry chemical, carbon dioxide or appropriate foam.

Section 6 – Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section-8.
Spills/ Leaks: Clean up spill immediately, observing precaution in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 – Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.
Storage: Store in cool, dry place. Keep container closed when not in use.

Section 8 – Exposure Controls, Personal Protection

Engineering Controls:Facilities storing or utilizing this should be equipped with eyewash & safety shower. Use adequate ventilation to keep airborne concentration low.
Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA – Final PELS
Natural Oil	None listed	None listed	None listed

OSHA Vacated PELs: No OSHA Vacated PELs are listed for this compound.
Personal Protective Equipment
Eyes: Wear appropriate protective glasses or chemical safety goggles as described by OSHA,s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: A respiratory protective program that meet OSHA,s 29 CFR 1910.134 and ANSI 288.2 requirements or European Standard EN 149 must be followed whenever conditions warrant a respirator's use.

Section 9 – Physical and Chemical Properties

Physical State : Liquid
Appearance : Light yellowish , Brownish liquid.
Odor : mild.
PH : Not available
Vapor Pressure : Not available
Vapor Density : Not available
Evaporation Rate : Not available
Viscosity : Not available
Boiling Point : 150deg.Centgrade.
Decomposition Temperature : Not available
Auto ignition Temperature : Not available
Flash Point : 290deg.
NFPA Rating : Not published
Explosion Limits, Lower : Not available
Upper : Not available
Solubility : Not available
Specific Gravity / Density : Not available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal temperature and pressure.
Conditions to Avoid: Incompatible material, dust generation, strong oxidants.
Incompatibility: Oxidizing agent.
Hazardous Decomposition Products: Carbon monoxide, oxides of nitrogen, oxides of sulfur, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 –Toxicological Information

RTECS# :
CAS# :
LD50/LC50 : Not available
Carcinogenicity :
Epidemiology : No data available
Teratogeniety : No data available
Reproductive Effects : No data available
Neurotoxicity : No data available
Mutagenicity : No data available
Other Studies : No data available

Section 12 – Ecological Information

Section 13 – Disposal Considerations

Compound waste generators must determine whether a discarded oil is classified as a hazardous waste. US EPA guidelines for the classification are listed in 40 CFR parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed
RCRA U-Series: None listed

Section 14 – Transport Information

			RID / ADR	IMO	Canada TDG
Shipping Name	No Information Available				
Hazard Class :					
UN Numbering :					
Packing Group :					

Section 15 – Regulatory Information

US FEDERAL

TSCA
CAS#:
Health & Safety Reporting List:
None of the compound in this product are on the Health and Safety reporting list.
Chemical Test Rules:
None of the chemicals in this product are under Chemical Test Rule.
Section 12b:
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule:
None of the chemicals in this material have a SNUR under TSCA.SARA

Section 302 (RQ)
None of the chemicals in this material have an RQ.
Section 302 (TPQ)
None of the chemicals in this material have a TPQ.
Section 313
No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any class 2 Ozone depletors.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of chemicals in this product are listed as Priority Pollution under the CWA. None of chemicals in this product are listed as Toxic pollutants under the CWA.

OSHA

None of chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS#: NA, is not present on state lists from **CA, PA, MN, MA, FL OR NJ.**
California No Significant Risk Level : None of the chemicals in this product are listed.
European / International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger / Protection)
CAS#: NA , No information available
WHMIS: Not available

Section 16 – Additional Information

The above information is believed to be accurate and represent the best information available to us. However, we make no warrant of merchantability or any other warranty, express or implied, with respect to such information and we assume no liability from its use. User should make their own investigations to determine the suitability of the information for their particular purpose. In no way shall MADAR Corporation be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if MADAR Corporation has been advised of the possibility of such damages.

SPECIFICATION SHEET

KARANJA OIL

BOTANICAL NAME : *Pongamia pinnata* Pierre

Product Description : A moderate sized tree with spreading branches, quite glabrous, almost evergreen. Leaves shining. Flowers in axillary racemes, corolla white-pink. Fruit a pod, woody; seeds .

TEST	SPECIFICATION	STP
Description	Yellow colored oil with unpleasant smell; has a tendency to darken on storage	Visual and organo-leptic examination
Refractive Index	: 1.4734 to 1.4790	IP-96, A-96
Acid Value	NMT 20	IP-96, A-50
Iodine Value	80.0 to 90.0	IP-96, A-51
Saponification Value	: 185.0 to 195.0	IP-96,A52
Unsaponifiable Matter	: 3.0 to 5.0	IP-96, A52
Sedimentation	NIL	Centrifuge @3000 RPM for 15 min
USES	: FLAVOUR AND FRAGRANCE INDUSTRY, PERFUMERY COMPOUND, SOAPS.CANDLES	