

MYSTIC MOMENTS

CERTIFICATE OF ANALYSIS

Product : Turmeric Root Oil
Batch no : 4465209
Best Before End : April 2025
Description : The product is obtained by the Steam distillation dried tubers of *Curcuma Longa L*

Parameter	Specification	Result	Method
<u>Physical and Analytical Parameters</u>			
Appearance	Free flowing liquid	Complies	Visual
Colour	Dark Yellow	Complies	Visual
Odour	A warm note of Turmeric	Complies	Organoleptic
Specific gravity@ 25°C	0.871 to 0.960	0.9238	FCC
Refractive Index@ 20°C	1.475 to 1.52	1.5055	FCC
Optical rotation	$0^{\circ} \text{ to } +5^{\circ}$	$+6.5^{\circ}$	FCC
<u>Heavy Metal Analysis</u>			
Total Heavy Metals	< 10 ppm	Complies	ICP - MS
Arsenic	< 1 ppm	Complies	ICP - MS
Lead	< 3 ppm	Complies	ICP - MS
Mercury	< 0.1 ppm	Complies	ICP - MS
Cadmium	< 1 ppm	Complies	ICP - MS

Storage

Do not store in close proximity to heat, sparks, open flames, strong acids, and strong bases. To minimise product degradation, avoid prolonged exposure of the material to air. Keep container tightly closed when not in use. Mix well before use.

MYSTIC MOMENTS

ALLERGENS DECLARATION				
Product Name	TURMERIC ROOT OIL			
Product Code				
Directive 2000/13/EC regarding labelling, presentation and advertising of Foodstuffs, Article 6(3a), 10 & 11, and Annex 111a, as amended by Directive 2007-68-EC, establishes a list of food ingredients which must be indicated on the label of foodstuffs as they are likely to cause adverse reactions in susceptible individuals.				
MAJOR ALLERGENS CHECKLIST				
COMPONENT	PRESENT IN THE PRODUCT	PRESENT IN THE SOURCE	PRESENT IN SAME LINE	PRESENT IN SAME PLANT
Cereals containing gluten (i.e. Wheat, rye, barley, oats, spelt, kamut or their hybridised strains and products thereof, except, a) wheat based glucose syrups including dextrose b) Wheat based maltodextrins c) glucose syrups based on barley d) cereals used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages.	Nil	Nil	Nil	Nil
Crustaceans and products thereof	Nil	Nil	Nil	Nil
EGGS and products thereof	Nil	Nil	Nil	Nil
FISH and products thereof except:- a) fish gelatine used as a carrier for vitamin or carotenoid preparations b) fish gelatine or isinglass used as fixing agent in beer and wine.	Nil	Nil	Nil	Nil
Peanuts and products thereof	Nil	Nil	Nil	Nil
Soybeans and products thereof, except a) fully refined soybean oil and fat b) natural mixed tocopherols (E306) natural D-alpha tocopherol, natural D-alpha tocopherol acetate, natural D-alpha tocopherol succinate from soybean sources c) vegetable oils derived phytosterols and phytostrol esters from soybean sources d) plant stanol ester produced from vegetable oil sterols from soybean	Nil	Nil	Nil	Nil
MILK and products thereof (including lactose), except a) whey used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages b) Lactitol	Nil	Nil	Nil	Nil
Nuts i.e. almonds (<i>Amygdalus communis L</i>), hazelnuts (<i>Corylus avellana</i>), walnuts, (<i>Juglans regia</i>), cashews (<i>Anacardium occidentale</i>), pecan nuts (<i>Carya illinoises (Wangenh) K. Koch</i>), Brazil nuts (<i>Bertholletia excelsa</i>), pistachio nuts (<i>Pistacia vera</i>), macadamia nuts and Queensland nuts (<i>Macadamia ternifolia</i>), and products thereof, except a) nuts used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages.	Nil	Nil	Nil	Nil

MYSTIC MOMENTS

Celery and Products thereof	Nil	Nil	Nil	Yes
Mustard and products thereof	Nil	Nil	Nil	Nil
Sesame seeds and products thereof	Nil	Nil	Nil	Nil
Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10mg/litre as SO ₂	Nil	Nil	Nil	Nil
Lupin and products thereof	Nil	Nil	Nil	Nil
Molluscs and products thereof	Nil	Nil	Nil	Nil

PREVENTION OF CROSS CONTAMINATION

Method	Working spaces and the equipments are cleaned and the goods are stored under standard conditions
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The above is based on the main allergens referred to in the following: -

FDA: The Food Allergen Labelling and Consumer Protection Act of 2004(August 2004) (Title II of Public Law 108-282) effective from 1st Jan 2006.

Annex IIIa, of the Council Directive (EC) No 2003/89 of the 10th November 2003, amending Directive 2000/13/EC as regards indication of the ingredients present in foodstuffs. Further amended by Council Directive 2007/68/EC of the 27th November 2007

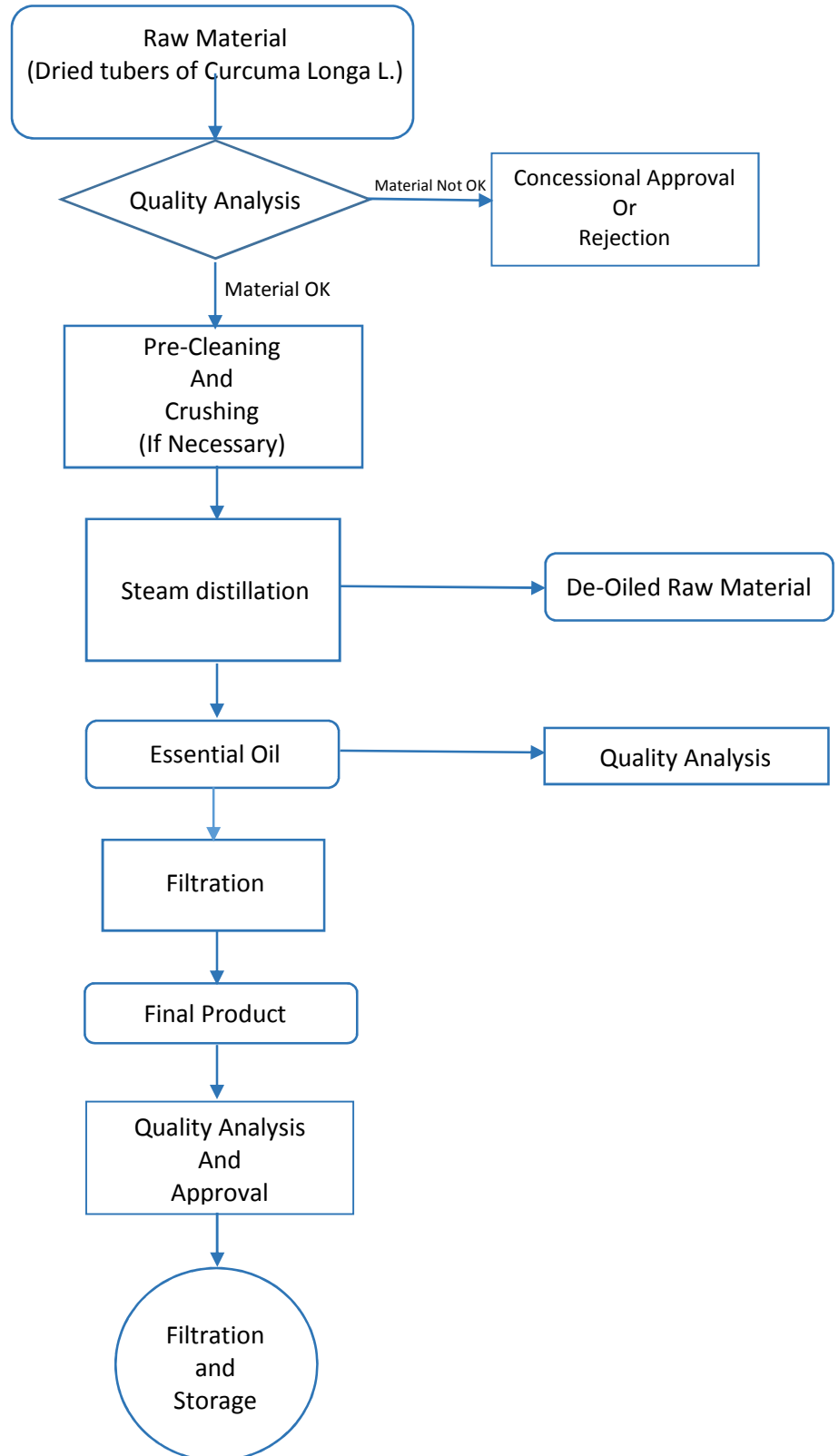
Codex Alimentarius: General Standard for the labelling of pre-packaged foods, Codex Standard 1-1985 (Rev 1-1991)

We hereby Declare that the information provided above is True to the best of our knowledge and hence the aforementioned Product does not Contain elements that cause Adverse reactions in Susceptible Individuals as per the references provided in the respective Columns.

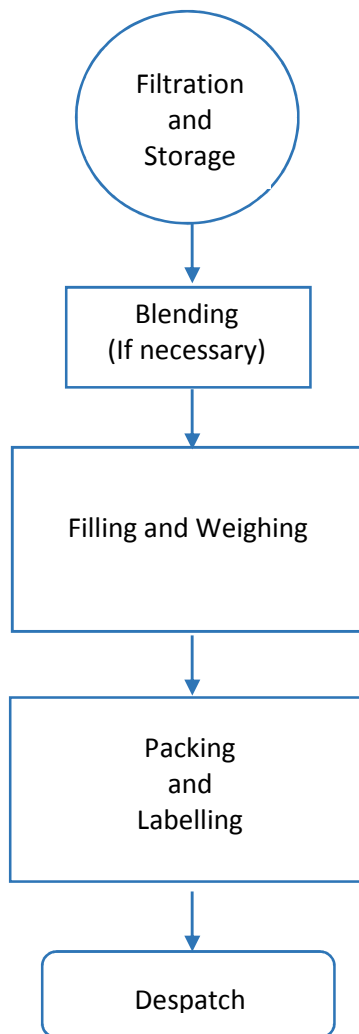
30.07.2020

MYSTIC MOMENTS

PROCESS FLOWCHART FOR TURMERIC ROOT OIL



MYSTIC MOMENTS



MYSTIC MOMENTS

IFRA 49TH AMENDMENT CONFIRMATION

30-07-2020

PRODUCT NAME : TURMERIC OIL
CHEMICAL NAME : Curcuma Longa
CAS NUMBER : 8024-37-1 FEMA NUMBER : 3085

We certify that the above named material conforms to the IFRA 49 code of practice and contains the following restricted components that are listed in the 49th amendment of the IFRA code of practice, and the concentration levels listed below are the maximum dosage allowed in each IFRA class:

IFRA Class	Max Level of use (%)
1	1.0
2	1.0
3	2.0
4	2.0
5	2.0
6	2.0
7	2.0
8	2.0
9	2.0
10	2.0
11	Not Restricted

IFRA Restricted ingredients and substance:

Ingredient name	CAS	Concentration (mg/kg)
Nil		

- The product is manufactured as per IFRA code of practices.
- Product is manufactured in keeping intention of the fragrance use.
- The product confirms to IFRA 49th amendment.

MYSTIC MOMENTS

Finished product types (QRA)	IFRA class
Toys; Lip Products of all types (solid and liquid lipsticks, balms, clear or colored etc...)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc...)	Class 2
Hydroalcoholic products applied to recently shaved skin (EdT range)	Class 3.A
Hydroalcoholic products applied to recently shaved skin (fine fragrance range)	Class 3.B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc...) including eye cream. Men's Facial Creams and Balms	Class 3.C
Tampons.	Class 3.D
Hydroalcoholic Products applied to unshaved skin (EdT range). Ingredients of Perfume Kits. Scent Strips for Hydroalcoholic Products, "scratch and sniff", other paper products not mentioned elsewhere for which skin exposure is only incidental (e.g. spectacle cleaning tissues).	Class 4.A
Hydroalcoholic Products applied to unshaved skin (Fine Fragrance range).	Class 4.B
Hair Styling Aids and Hair Sprays of all types (pumps, aerosol sprays, etc...); Hair Deodorant. Body Creams, Oils, Lotions of all types (including baby creams, lotions, oils). Fragrance Compounds for Cosmetic Kits, Foot Care Products	Class 4.C
Fragrancing Cream	Class 4.D
Women's Facial Creams/Facial Make-up (excluding eye cream); Facial Masks; Hand Cream Wipes or refreshing tissues for Face, Neck, Hands, Body.	Class 5
Mouthwash, Toothpaste.	Class 6
Intimate Wipes; Baby Wipes.	Class 7.A
Insect Repellent (intended to be applied to the skin).	Class 7.B
Make-up Removers of all types (not including face cleansers). Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners etc...). Nail Care. All Powders & Talcs (including baby powders and talcs).	Class 8
Liquid Soap, Bar Soap (toilet soap); Depilatory; Conditioner (rinse-off), Shampoos of all types (including baby shampoos). Face Cleansers of all types (washes, gels, scrubs, etc...). Shaving Creams of all types (stick, gels, foams, etc...). Body Washes of all types (including baby washes). Shower Gels of all types; Bath Gels, Foams, Mousses, Salts, Oils and other products added to bathwater	Class 9.A
Feminine hygiene pads / liners.	Class 9.B
'Other' Aerosols (including air fresheners sprays but not including deodorant/antiperspirants, hair styling aids spray).	Class 9.C
Hand wash/Machine wash Laundry Detergents of all types (liquid, powder, tablet, etc...) including Laundry Bleaches. Other Household Cleaning Products (fabric cleaners, soft surface cleaners, carpet cleaners etc...) . Dry Cleaning Kits. Fabric Softeners of all types including fabric softener sheets. Hand Dishwashing Detergent. Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish etc...). Shampoos for pets	Class 10.A

MYSTIC MOMENTS

Diapers. Toilet seat wipes.	Class 10.B
All non-skin contact, including: Air Fresheners and fragrancing of all types (excluding aerosol products): plug-ins, solid substrate, membrane delivery; Toilet blocks; Joss Sticks, Incense; Insecticides (mosquito coil, paper, electrical, etc... excluding aerosols); Plastic articles (excluding toys); Candles; Fuels; Paints; Floor wax; Liquid refills for air fresheners (cartridge system)	Class 11.A
All incidental skin contact, including: Machine Dish wash Detergents and Deodorizers. Machine only Laundry Detergents (e.g. liquitabs). Deodorizers/Maskers (e.g. fabric drying machine deodorizers, carpet powder). Pot pourri, fragrancing sachets, liquid refills for air fresheners (non-cartridge systems), etc... Shoe polishes; Cat Litter; Animal Sprays (excluding aerosols); Treated Textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics, tights with moisturizers); Odored Distilled Water (that can be added to steam irons).	Class 11.B

MYSTIC MOMENTS

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product Name : **TURMERIC ROOT OIL**
Category of product : Essential oil
CAS # : 8024-37-1
Fema No : 3085
CUSTOMS TARRIF CODE : 3301 2949

Company : Madar Corporation Limited
19 - 20 Sandleheath Industrial Estate,
Fordingbridge, SP6 1PA
Phone: +44 (0)1425 65555
Email: technical@madarcorporation.co.uk

2. HAZARDS IDENTIFICATION

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements

Pictogram



Signal word Danger
Hazard statement H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
P331 – Do NOT induce vomiting.

MYSTIC MOMENTS

	P302 + P352 – IF ON SKIN: Wash with plenty of water/soap. P362 + P364 – Take off contaminated clothing and wash it before reuse. P370 + P378 – In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
Storage	P405 – Store locked up, P403 + P235 – Store in well-ventilated place.
Disposal	P501 – Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/ national/international regulations.
Hazard(s) not otherwise Classified (HNOC)	none known.
Supplementary precautionary Statements	100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
TURMERIC ROOT OIL		8024-37-1	100

4. FIRST AID MEASURES

4.1. Description of First Aid Measures

- General** : Take phrases in sections 2 and 15 into account. Consult a Physician. Move Out of Dangerous Area
- Inhalation** : Remove from the exposure area to fresh air. Give artificial Respiration if necessary
- Ingestion** : Rinse mouth with plenty of water. Seek medical advice immediately.
- Skin Contact** : Remove contaminated clothing. Wash thoroughly with soap and water. Seek Medical advice if irritation persists or there is any sign of tissue damage.
- Eye Contact** : Flush with plenty of water, seek medical advice if necessary.

4.2. Indication of Any immediate medical Attention and Special Treatments needed

No data Available

5. FIRE-FIGHTING MEASURES

- Extinguishing Media** : Carbon dioxide, foam or dry powder
Use water Spray, DO NOT USE A DIRECT WATER JET
In case of overheating, cool containers to avoid a pressure increase
- Special Hazard Arising** : No data available
- Combustion Products** : Carbon dioxide and unidentified organic compounds.
- Special Protective Equipment: For Fire fighters only**: Wear protective clothing and avoid inhalation of vapours
: Wear Self-Contained Breathing apparatus for if necessary

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition. Avoid inhalation, skin and eye contact. Ensure proper ventilation.

MYSTIC MOMENTS

6.2. Environmental precautions:

Do not discharge directly into drains or the soil. Keep away from surface and ground water

6.3. Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbent material such as earth or vermiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

6.4. Reference to other sections:

Take Risk, Safety and Precautionary phrases (section 16) into account

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes.

7.2. Handling

Wear safety glasses, rubber gloves and apron when handling.

7.3. Storage

Do not store in close proximity to heat, sparks, open flames, strong acids, and strong bases. To minimise product degradation, avoid prolonged exposure of the material to air. Keep container tightly closed when not in use.

7.4. Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers away from ignition sources and in a cool place.

7.5. Specific End Use(s)

Apart from the uses mentioned in this Documents, no other specific uses are stipulated at this time.

7.6. Shelf life

Not more than 3 years, when stored as recommended above.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EXPOSURE CONTROLS:



Wear protective Equipments – Protective Gloves, Goggles and Coat

Ventilation

Mechanical exhaust may be needed in confined and warm areas.

Safety Station

An eyewash and safety shower should be readily available.

MYSTIC MOMENTS

Contaminated Equipment

Clean contaminated equipment with soap and water.

8.3. Personal Protection

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Free flowing liquid
Colour	:	Pale yellow to orange Yellow
Odour	:	A warm note of Turmeric
Boiling point	:	Not determined
Vapour pressure	:	Not determined
Flash point	:	208 ⁰ C
Oxidising properties	:	Not determined
Explosive properties	:	Not explosive
Flammability limits	:	Not determined
Solubility in water (Weight %):	:	< 0.5

10. STABILITY AND REACTIVITY

Reactivity

No data available

MYSTIC MOMENTS

Conditions to Avoid

Prolonged or excessive heat and/or exposure to air may cause decomposition or oxidation of the material.

Materials to avoid

Contact with Chemicals may decompose the ingredients present in it. If possible avoid contact with all kinds of Chemical. Avoid Light and Extreme temperatures to avoid ignition

Possibility of Hazardous Reactions

No data Available

Incompatible materials

Strong bases, Strong oxidizing agents, and highly reactive chemicals which may produce unknown reaction.

Hazardous Decomposition Products

Formed under Fire Conditions : Oxides of Carbon

Other Decomposition Products : Not determined

11. TOXICOLOGY INFORMATION

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes mild skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	May be harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, edness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways
* Estimates for product may be based on additional component data not shown.	

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

MYSTIC MOMENTS

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

May be harmful if swallowed and enters airways

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Persistence and degradability

No data is available on the degradability of this substance.

Bioaccumulative potential

No data available.

Mobility in soil

No data available

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATION

Dispose in accordance with the law and local regulations. Treat as trade effluent. In the event of a spillage, the oil can be contained by sand or soil and absorbed by paper from which the oil will evaporate.

14. TRANSPORT INFORMATION

The oil can be safely stored or transported in sound metal drums or bottles at ambient temperatures. Store in full sealed containers, keep cool and protect from light to preserve quality, preferred container for long term storage - stainless steel or glass. UN 1169 FLAMMABLE LIQUID, Extract, aromatic, liquid. CLASS: 3, PG III.

AIR FREIGHTS

Air freights are done in conformance to latest IATA/ICAO regulations with the name and address of the notifying party on the cartons

DOT (US)

Not dangerous Goods

IMDG

Not dangerous Goods

MYSTIC MOMENTS

IATA

Not dangerous Goods

15. REGULATORY INFORMATION

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 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Chemical safety assessment

No data available at this time

REGULATORY STATUS

CAS# 8024-37-1

FEMA# 3085

FDA NO # 182.10

EINECS NO # 283-882-1

Council of Europe NO# 163n

H.S.CODE (CUSTOMS TARRIF CODE) # 3301 2949

16. OTHER INFORMATION

16.1. References

1. The Essential oils by Gunther
2. Wealth Asia disk 2.2 (Publication of CSIR, India)
3. Essential oils by Dr. Brain M Lawrence
4. Food Chemical codex
5. Source Book of Flavours by Gary Reineccius

16.2. Uses

The oil widely used as flavoring of spicy food products and to lesser extent, in perfumes of heavy oriental character

16.3. Further Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Greenleaf Extractions Pvt. Ltd. Company and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Computer edited Certificate - valid without signature

UPDATED ON 01/01/2018

MYSTIC MOMENTS

TECHNICAL DATA SHEET

Product: Turmeric Root Oil

CAS NO : 8024-37-1

FEMA NO: 3085

HS CODE: 3301 2949

Description:

Turmeric Root Oil is obtained by steam distillation of dried tubers of Curcuma Longa L.

Organoleptic characteristics:

Pale yellow to Orange yellow free flowing clear liquid with a warm note of turmeric.

ANALYTICAL QUALITY		
Parameters	Specifications	Test Method
Specific gravity @ 25 ⁰ C	0.871 to 0.950	GLE/QC/108 (ref:FCC)
Refractive Index @ 20 ⁰ C	1.475 to 1.520	GLE/QC/107 (ref:FCC)
Optical Rotation	-22 ⁰ to +45 ⁰	GLE/QC/109 (ref:FCC)
Turmerone (by GC)	28% to 40%	GLE/QC/112

HEAVY METALS		
Arsenic	Less than 1 ppm	ICP-MS
Lead	Less than 3 ppm	ICP-MS
Cadmium	Less than 1 ppm	ICP-MS
Mercury	Less than 0.1 ppm	ICP-MS

Halal & Kosher:

Certified by Halal Certification Services India Pvt Ltd and Star-K Kosher (USA).

Additives:

No additives

GMO Status:

The product is free from Genetically Modified Organisms.

Flavouring Status according to US (21 CFR 101-22) and EC(1334/2008) :

Natural Flavouring Preparation

Packaging

18 kg/20 Kg/ 180 Kgs HDPE pails/barrels or as per customer requirement.

Storage:

Keep in full & tight containers away from direct heat and light at ambient temperature (24-25°C).

Shelf Life:

Not more than 3 years from the date of manufacture when stored under specified storage conditions

MYSTIC MOMENTS

Date: 30.07.2020

VEGAN & VEGETARIAN STATEMENT

To Whom It May Concern,

Product - Turmeric Root Oil

The above mentioned product manufactured and supplied by MADAR Corporation Limited, comply with a vegan or vegetarian diet. They 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.

Therefore it is suitable for vegan and vegetarians.