## **CERTIFICATE OF ANALYSIS**

MATERIAL	PLAI OIL
BATCH NUMBER	4420912
BEST BEFORE END	JANUARY 2024

Appearance	Colourless to yellow liquid
Odour	Characteristic
Specific Gravity @ 20°C	0.883
Refractive Index @ 20°C	1.4850
Flashpoint	47°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:

PLAI OIL

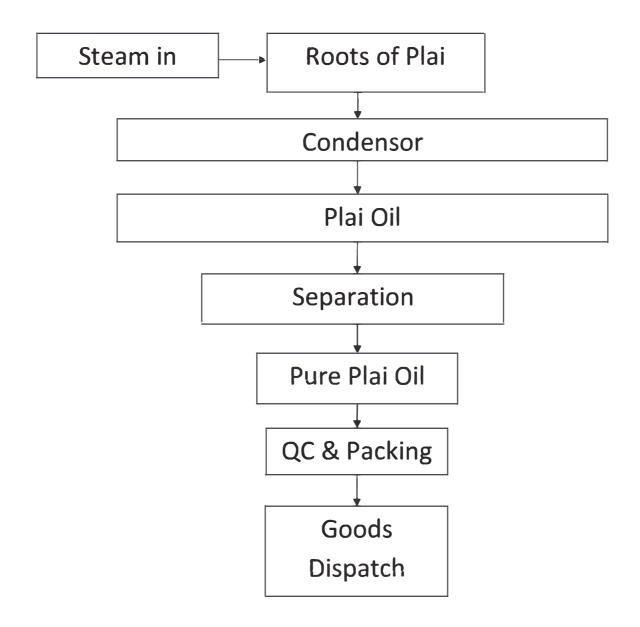
INGREDIENT	CAS No.	% TOTAL
Alpha-Isomethylionone	127-51-5	А
Amyl Cinnamal	122-40-7	А
Amylcinnamyl Alcohol	101-85-9	А
Anise Alcohol	105-13-5	А
Benzyl Alcohol	100-51-6	А
Benzyl Benzoate	120-51-4	А
Benzyl Cinnamate	103-41-3	А
Benzyl Salicylate	118-58-1	А
Butylphenyl Methylpropional (Lilial)	80-54-6	А
Cinnamal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

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.

\* A denotes absent

04/03/2019

# **Production Flow chart – Plai Oil**



## **GMO DECLARATION**

MATERIAL	PLAI OIL
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We have carefully reviewed the ingredients in this product for their potential genetically modified (GM) origin. The list includes ingredients which may be produced from other GM ingredients.

Material	Present	Of GMO Origin
Chicory	No	-
Cotton	No	-
Maize	No	-
Potato	No	-
Rape	No	-
Soya	No	-
Sugar Beet	No	-
Tomato	No	-
Wheat	No	-

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.

### IFRA CONFORMITY CERTIFICATE TRADE NAME: PLAI OIL

**REVISION: 28.08.2020** 

We certify that the above compound is in compliance with the published Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (up to and including IFRA 49<sup>th</sup> Amendment/ published in January 2020), provided that it is used in the following class(es) at a maximum concentration level of:

#### **Contains Restricted Substances: None**

Component	CAS Number	Quantity

The IFRA Standards regarding use restriction are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

Evaluation of individual fragrance ingredients is made according to the safety standards contained in the relevant section of the IFRA Code of Practice.

It is the ultimate responsibility of the customer to ensure the safety of the final product (containing this fragrance) by further testing if needed.

#### **REVISION: 28.08.2020**

## IFRA CONFORMITY CERTIFICATE TRADE NAME: PLAI OIL

Product Type	IFRA Category	Value
Lip products of all types (solid and liquid lipsticks, balms, clear	CLASS 1	100%
or coloured, etc.)		
Children's toys		
Deodorant and antiperspirant products of all types including	CLASS 2	100%
any product with intended or reasonably foreseeable use on		
the axillae or labelled as such (spray, stick, roll-on, under-		
arm, deocologne, etc.)		
Eye products of all types (eye shadow, mascara, eyeliner, eye	CLASS 3	100%
make-up, eye masks, eye pillows, etc.) including eye care and		
moisturiser.		
Facial make up and foundation.		
Make-up remover for face and eyes.		
Nose pore strips.		
Wipes or refreshing tissues for face, neck, hands, body.		
Body and face paint (for children and adults).		
Facial masks for face and around the eyes.		
Hydroalcoholic and non-hydroalcoholic fine fragrance of all	CLASS 4	100%
types (Eau de Toilette, Parfum, Cologne, solid perfume,		
fragrancing cream, aftershaves of all types, etc.)		
Fragranced bracelets.		
Ingredients of perfume kits and fragrance mixtures for		
cosmetic kits.		
Scent pads, foil packs.		
Scent strips for hydroalcoholic products.		
Body creams, oils, lotions of all types.	CLASS 5A	100%
Foot care products (creams and powders).		
Insect repellent (intended to be applied to the skin).		
All powders and talc (excluding baby powders and talc).		
Facial toner.	CLASS 5B	100%
Facial moisturisers and creams.		
Hand cream.	CLASS 5C	100%
Nail care products including cuticle creams, etc.		
Hand sanitisers.		
Baby cream/lotion, baby oil, baby powders and talc.	CLASS 5D	100%
Toothpaste	CLASS 6	100%
Mouthwash, including breath sprays.		

## IFRA CONFORMITY CERTIFICATE TRADE NAME: PLAI OIL

	1	1
Toothpowder, strips, mouthwash tablets.		
Hair permanent or other hair chemical treatments (leave-on)	CLASS 7A	100%
(e.g. relaxers), including rinse-off hair dyes.		
Hair sprays of all types (pumps, aerosol sprays, etc.)	CLASS 7B	100%
Hair styling aids non sprays (mousse, gels, leave-on		
conditioners).		
Hair permanent or other hair chemical treatments (leave-on)		
(eg. relaxers), including leave-on hair dyes.		
Shampoo – Dry (waterless shampoo).		
Hair deodoriser.		
Intimate wipes.	CLASS 8	100%
Tampons.		
Baby wipes.		
Toilet paper (wet).		
Bar soap.	CLASS 9	100%
Shampoo of all types.		
Cleanser for face (rinse-off).		
Conditioner (rinse-off).		
Liquid soap.		
Body washes and shower gels of all types.		
Baby wash, bath, shampoo.		
Bath gels, foams, mousses, salts, oils and other products		
added to bathwater.		
Foot care products (feet are placed in a bath for soaking).		
Shaving creams of all types (e.g. paste, sprays, sticks).		
All depilatories (including facial) and waxes for mechanical		
hair removal.		
Shampoos for pets.		
Hand wash laundry detergent (including concentrates).	CLASS 10A	100%
Laundry pre-treatment of all types (e.g. paste, sprays, sticks).		
Hand dishwashing detergent (including concentrates).		
Hard surface cleaners of all types (bathroom and kitchen		
cleansers, furniture polish, etc.)		
Machine laundry detergents with skin contact (e.g. liquids,		
powders) including concentrates.		
Dry cleaning kits.		
Toilet seat wipes.		
Fabric softeners of all types including fabric softener sheets.		

#### **REVISION: 28.08.2020**

## IFRA CONFORMITY CERTIFICATE TRADE NAME: PLAI OIL

Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorisers for textiles or fabrics).		
Floor wax. Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc.	-	
Ironing water (odourised distilled water).	-	
Animal sprays – sprays applied to animals of all types.	CLASS 10B	100%
Air freshener sprays, manual, including aerosol and pump.		
Aerosol/spray insecticides.		
Feminine hygiene conventional pads, liners, interlabial pads.	CLASS 11A	100%
Diapers (baby and adult).		
Adult incontinence pant, pad.	_	
Toilet paper (dry).		
Tights with moisturisers.	CLASS 11B	100%
Scented socks, gloves.	_	
Facial tissues (dry tissues).	_	
Napkins.	_	
Paper towels.	_	
Wheat bags.	_	
Facial masks (paper/protective) e.g. surgical masks not used as a medical device.		
Fertilisers, solid (pellet or powder).		
Candles of all types (including encased).	CLASS 12	100%
Laundry detergents for machine was with minimal skin		
contact (e.g. liquid tabs, pods).		
Automated air fresheners and fragrancing of all types		
(concentrated aerosol with metered doses (range 0.05-		
0.5ml/spray), plug-ins, closed systems, solid substrate,		
membrane delivery, electrical, powders, fragrancing sachets,		
incense, liquid refills (cartridge), air freshening crystals.		
Air delivery systems.		
Cat litter.		
Cell phone cases.		

### IFRA CONFORMITY CERTIFICATE TRADE NAME: PLAI OIL

**REVISION: 28.08.2020** 

Deodorisers/maskers not intended for skin contact (e.g.
fabric dying machine deodorisers, carpet powders).
Fuels.
Insecticides (e.g. mosquito coil, paper, electrical, for clothing)
excluding aerosols/sprays.
Joss sticks or incense sticks.
Dishwash detergent and deodorisers – for machine wash.
Olfactive board games.
Paints.
Plastic articles (excluding toys).
Scratch and sniff.
Scent pack.
Scent delivery system (using dry air technology).
Shoe polishes.
Rim blocks (toilet).

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.

### **MATERIAL SAFETY DATA SHEET**

#### 1 - Identification of Product and Supplier

Product	Name:
Supplier	:

Plai Oil Madar Corporation 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk

Contact:

#### 2 - Hazards identification:

Xn - Harmful

#### **3-** Composition and information on ingredients:

The product does not belong to any list of substances supposedly hazardous to human or animal health according to EU guideline 548/67 and further amendments, nor to those having recognised exposition limits.

INCI Name: Chemical composition: CAS No:	<b>Zingiber Cassumunar Root Oil</b> Zingiber Cassumunar Root Oil is the volatile oil obtained from the roots of Zingiber cassumunar, Zingiberaceae. 84696-15-1 / 8007-08-7
EINECS No:	283-634-2 / -
Application:	Skin conditioning
<u>Application</u> .	Skir conditioning
4 - First aid measures:	
Inhalation:	Remove from exposure site to fresh air. Keep at rest. Seek medical advice.
<u>Skin contact</u> :	Wash with water and soap – may need to seek medical advice.
<u>Eye contact</u> :	Flush with water for at least 15 minutes. Contact a doctor if symptoms persist.
Ingestion:	Not to be consumed in any circumstances. Rinse mouth out with water and seek medical advice <b>immediately.</b>
<u>Other:</u>	When assessing action take into account Risk & Safety Phrases (Section 15)
5 - Fire - Fighting measures:	
Extinguishing media:	Carbon dioxide, foam, dry powder – spray extinguishing media to the base of the flames. Closed containers may build up pressure when exposed to heat – cool with water spray.
Extinguishing media to avoid:	Direct sprays of water
	Avoid inhalation of smoke and fumes: If inhaled seek immediate medical advice.

#### 6 - Accidental release measures:

<u>Personal Precautions</u>: Gloves and eye protection should be worn when handling spillages.

<u>Avoid flames or other potential sources of ignition</u>. Avoid eye / skin contact and inhalation of vapour. Good personal washing routines should be followed after accidental release.

Environmental Precautions: Do not allow discharge in drains, water supply or on soil. If spilt on soil or

- land use adequate cleaning measure in line with Government environmental protection legislation.
- <u>Clean Up Method:</u> Remove all potential ignition sources. Contain spillage. Cover with noncombustible inert inorganic absorbent material. Sweet up and remove to an approved disposal container. Dispose according to UK/EU environmental regulations.

#### 7 - Handling and storage:

General Handling Precautions:	Handle in accordance with good occupational hygiene and safety practices in a well ventilated area. Avoid direct contact with skin and eyes. Avoid inhaling vapour. Use protective equipment such as gloves and eye goggles to minimise oil to skin contact. Do not eat, drink or smoke while handling.
Fire Protection:	Keep away from sources of ignition & naked flames. Avoid static discharges in working area.
Storage Conditions:	Store in full, dry, airtight containers away from sources of heat and light. Do not re-use the empty container.

#### 8 - Exposure controls and personal protection:

Respiratory Control:	Where ventilation may be inadequate, wear self-contained breathing
	apparatus. Avoid breathing product vapour.
Hand/Skin Protection:	Wear impervious gloves and clothing – avoid all skin contact.
Eye Protection:	Wear eye protection e.g. safety goggles / glasses.

#### 9 - Physical data and chemical properties:

<u>Form</u> :	Clear colourless to pale yellow
Odour:	liquid A slight characteristic odour
Boiling point (°C):	>100

#### 10 - Stability and Reactivity:

Conditions to	High temperature near flash point
avoid: Materials to	Strong oxidising agents, acids and alkali's.
avoid: Shelf Life:	24 to 36 months when stored in nitrogen flushed containers
Decomposition:	Likely to cause smoke and acrid fumes during combustion: carbon dioxide, carbon monoxide and other non-identified organic compounds may be formed.

#### 11 - Toxicological information:

Non toxic product if used in correct dosages: Always dilute for skin or personal care. Skin patch testing is recommended for the final product.

#### **12** - Ecological information:

<u>Avoid spillage in environment</u>: If spilt follow clear up procedures in line with Government environmental legislation – call emergency services if large spillage. Prevent surface contamination of soil, ground & surface water.

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### **13- Disposal Considerations**

Residue for disposal: According to local Government environmental regulations. Waste packing: Observe local regulations. Avoid disposing to drainage systems and into the environment – seek expert advice.

#### **14** - Transport information:

No transport restrictions.

#### **15** - Regulatory information:

Harmful, may cause sensitisation to skin, avoid contact. Not for oral consumption – may cause lung damage. If swallowed do not induce vomiting, seek medical advice immediately and show the container or label.

#### **16 - Other information:**

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Citral, Limonene and Linalool listed as sensitisers. Check maximum usage levels for skincare.

#### Q.C. REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding it's' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.

1 Identification of the Substance/Mixture and of the Company/Undertaking			
1.1	Product Identifier PLAI OIL		
	EINECS CAS Number	84696-15-1	
	CAS Number	8007-08-7	
	EC Number	283-634-2	
1.2	Relevant Identified Uses of the Substance	Concentrated material for manufacturing	
	or Mixture and Uses Advised Against	purposes only.	
1.3	3 Details of the Supplier of the Safety Data MADAR Corporation Limited		
	Sheet	19-20 Sandleheath Industrial Estate,	
		Fordingbridge, Hampshire, SP6 1PA	
		TEL: 01425 655555	
		EMAIL: sales@madarcorporation.co.uk	
1.4	Further Information Obtainable from	MADAR Corporation Limited	
1.5	Emergency Telephone Number	01425 655555 (Office Hours: 9am to 5pm	
		Mon-Fri)	

#### 2 Hazards Identification

	2		
2.1	<b>Classification of the</b>	FL 3 Flammable liquid, Category 3.	
	Substance or Mixture	AH 1	Aspiration hazard, Category 1.
		SCI 2 Skin corrosion/irritation, Category 2.	
		SS 1	Skin sensitisation, Category 1.
		EDI 2A	Eye damage/irritation, Category 2A.
		EH A2	Aquatic hazard, acute, Category 2.
		EH C2	Aquatic hazard, long-term, Category 2.

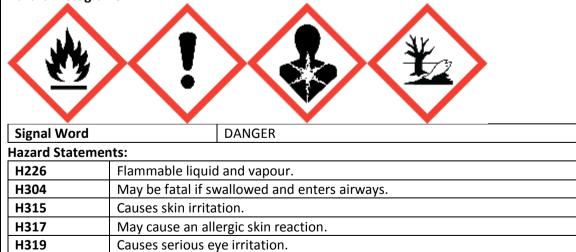
2.2 Label Elements:

H401

H411

GHS Classification According to Regulation (EC) No. 1272/2008: Hazard Pictograms:

Toxic to aquatic life.



Toxic to aquatic life with long lasting effects.

Precautionary Statements:				
P261		Avoid	Avoid breathing fumes.	
P264		Wash	hands thoroughly after handling.	
P272		Conta	aminated work clothing should not be allowed out of the workplace.	
P273		Avoid release to the environment.		
P280		Wear protective gloves and eye protection.		
P351		Rinse cautiously with water for several minutes.		
2.3	Other Ha	r Hazards Contains nothing known from the allergens list which may produce an		
	allergic reaction. No further information available at this time.			

#### **3** Composition/Information on Ingredients

3.1	Substances	Description	PLAI OIL
		EC Number	283-634-2
		CAS Number	8007-08-7
		EINECS CAS Number	84696-15-1

4 Firs	<mark>t Aid Measures</mark>		
4.1	Description of	Take phrases in Section	ns 2 into account.
	First Aid Measures		
	After Inhalation	Remove person from t	he exposure area to fresh air. Contact a doctor
		if necessary.	
	After Skin Contact	Remove contaminated	d clothing. Wash thoroughly with soap and
		water. Seek medical ad	dvice if irritation persists or there is any sign of
		tissue damage.	
	After Eye Contact	Flush with plenty of wa	ater and seek medical advice if necessary.
	Ingestion	Wash mouth with p	lenty of water and obtain medical advice
		immediately.	
4.2	Most Important Symptoms and Effects,		No further information available at this time.
	Both Acute and Delayed		
4.3	Indication of Immediate Medical		No further information available at this time.
	Attention and Speci	al Treatment Needed	

## 5 Fire-fighting Measures

Non-flammable.

5.1	Extinguishing Media	Carbon dioxide (CO2), foam or dry powder.	
		DO NOT USE A DIRECT WATER JET.	
5.2	Special Hazards Arising from	May produce Carbon dioxide (CO2) and unidentified	
	the Substance or Mixture	organic compounds.	
5.3	Advice for Fire-fighters Wear protective clothing and avoid inhalation of vapo		
		Keep containers cool with water spray.	
6 Acc	idental Release Measures		
6.1	Personal Precautions,	Remove all sources of ignition. Avoid inhalation, skin and	
	Protective Equipment and	eye contact. Ensure proper ventilation.	
	Emergency Procedures		

6.2	<b>Environmental Precautions</b>		Do not discharge directly into drains or the soil. Keep
			away from surface and ground water.
6.3	Methods and Material for		Soak up spillage with sand or other inert absorbent
	Containment and Clear	ning Up	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 Sec	ctions	Refer to information in Sections 7, 8 and 13.
7 Har	ndling and Storage		
7.1	Precautions for Safe Ha	andling	Maintain good occupational and personal hygiene. Avoid
			inhalation and contact with skin and eyes.
7.2	<b>Conditions for Safe Sto</b>	rage,	Store in tightly sealed original containers away from
	including any Incompa	tibilities	ignition sources and in a cool place.
7.3	Specific End Use(s)		No further information available.
3 Exp	osure Controls/Personal	Protectio	on
	osure Controls/Personal Control Parameters	1	mation available.
8.1		1	
8.1 3.2 Ex	<b>Control Parameters</b>	No infor	
8.1 3.2 Ex Engi	Control Parameters xposure Controls:	No infor No infor	mation available.
8.1 3.2 Ex Engi Indiv	Control Parameters xposure Controls: ineering Controls	No infor No infor Refer to	mation available.
8.1 8.2 Ex Engi Indiv	Control Parameters xposure Controls: ineering Controls vidual Protection	No infor No infor Refer to equipme	mation available. mation available. Section 5 for specific fire/chemical personal protective
8.1 3.2 Ex Engi Indiv Mea	Control Parameters xposure Controls: ineering Controls vidual Protection	No infor No infor Refer to equipme and at th	rmation available. rmation available. 9 Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals
8.1 3.2 Ex Engi Indiv Mea	Control Parameters xposure Controls: ineering Controls vidual Protection asures	No infor No infor Refer to equipme and at th Wear sa	mation available. mation available. Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals he end of the work period.
8.1 3.2 E) Engi Indiv Mea Eye/ Han	Control Parameters xposure Controls: ineering Controls vidual Protection asures /Face Protection	No infor No infor Refer to equipme and at th Wear sa Wear ch	mation available. mation available. Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals he end of the work period. fety goggles.
8.1 3.2 E) Engi Indiv Mea Eye/ Han	Control Parameters xposure Controls: ineering Controls vidual Protection asures /Face Protection d Protection	No infor No infor Refer to equipme and at th Wear sa Wear ch Wear ov	rmation available. rmation available. Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals he end of the work period. fety goggles. memically resistant disposable gloves.
8.1 Engi Indiv Mea Eye/ Han Othe	Control Parameters xposure Controls: ineering Controls vidual Protection asures /Face Protection d Protection	No infor No infor Refer to equipme and at th Wear sa Wear ch Wear ov the end	rmation available. rmation available. o Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals he end of the work period. fety goggles. memically resistant disposable gloves. veralls. Always wash routinely before breaks, meals and at
8.1 Engi Indiv Mea Eye/ Han Othe	Control Parameters xposure Controls: ineering Controls vidual Protection asures /Face Protection d Protection er Skin Protection	No infor No infor Refer to equipme and at th Wear sa Wear ch Wear ov the end Not gen	rmation available. rmation available. Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals he end of the work period. fety goggles. memically resistant disposable gloves. veralls. Always wash routinely before breaks, meals and at of the work period.
8.1 B.2 E) Engi Indiv Mea Eye/ Han Otho Resp	Control Parameters xposure Controls: ineering Controls vidual Protection asures /Face Protection d Protection er Skin Protection	No infor No infor Refer to equipme and at th Wear sa Wear ch Wear ov the end Not gen ventilate	rmation available. rmation available. Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals he end of the work period. fety goggles. memically resistant disposable gloves. veralls. Always wash routinely before breaks, meals and at of the work period. merally required. Use inhalation protection in poorly
8.1 B.2 Exercises Indiv Mea Eyercises Han Othe Resp Theorem	Control Parameters xposure Controls: ineering Controls vidual Protection asures /Face Protection d Protection er Skin Protection piratory Protection	No infor Refer to equipme and at th Wear sa Wear ch Wear ov the end Not gen ventilate No infor	rmation available. rmation available. o Section 5 for specific fire/chemical personal protective ent advice. Always wash routinely before breaks, meals he end of the work period. ifety goggles. nemically resistant disposable gloves. veralls. Always wash routinely before breaks, meals and at of the work period. nerally required. Use inhalation protection in poorly ed areas.

### 9 Physical and Chemical Properties

9.1 Information on	<b>Basic Physical</b>	and Chemical	Pronerties.
<b>3.1</b> IIII0IIIIau0II 0II	Dasil Flivsilai d	and Chemical	FIUDEILIES.

Flash Point	47°C
Appearance	Colourless to yellow liquid.
Relative Density @ 20°C	0.880 to 0.925
Vapour Pressure	
Auto-ignition Temperature	
Odour Threshold	
рН	
Evaporation Rate	
Vapour Density	
Partition Coefficient	
Decomposition Temperature	

Viscosi	ity				
	ive Properties	1			
Oxidising Properties					
			nformation available.		
II					
10 Stabi	ility and Reactivity				
10.1	Reactivity		Not de	termined.	
10.2	Chemical Stability		Not de	termined.	
10.3	Possibility of Hazardous Reactio	ns	Not de	termined.	
10.4	Conditions to Avoid		Not de	termined.	
10.5	Incompatible Materials		Highly	reactive chemicals which may produce	
			unknov	wn reaction products and so cause	
			additio	nal hazards.	
10.6	Hazardous Decomposition Prod	ucts	Not de	termined.	
	cological Information				
	ormation on Toxicological Effect	s:			
	Toxicity			No data available.	
	orrosion/Irritation			No data available.	
-	s Eye Damage/Irritation			No data available.	
	atory or Skin Sensitisation			No data available.	
-	Cell Mutagenicity			No data available.	
	Carcinogenicity			No data available.	
	ductive Toxicity			No data available.	
STO-single Exposure				No data available.	
STO-repeated Exposure			No data available.		
-	Aspiration Hazard			No data available.	
	Information on Likely Routes of Exposure			No data available.	
			No data available.		
	logical Characteristics			No. data available	
-	ed and Immediate Effects as well		nronic	No data available.	
-	from Short and Long-term Expo ctive Effects	sure		No data available.	
Other Information No data available.					
12 Ecological Information					
	Toxicity	No d	ata avai	lable. Avoid soil, surface water and water-	
		bearing stratum contamination.			
12.2	Persistence and Degradability	No data available.			
	Bioaccumulative Potential	No data available.			
	Mobility in Soil	No data available.			
	Results of PBT and vPvB	No data available.			
	Assessment				
12.6					
<b>I</b>	I				

13 Disposal Considerations					
Please	refer to the in	nformatior	n in Section 8 (	(Exposure Controls and Personal Protection).	
13.1	Waste Treat				
	Methods		trade effluen	nt.	
14 Trai	nsport Inform				
14.1	UN Number			1169	
14.2	UN Proper S	Shipping N	ame	EXTRACTS, AROMATIC, LIQUID	
14.3	Transport H		s(es)	3	
14.4	Packing Gro				
	Tunnel Code			(D/E)	
14.5	Environmen			No relevant information available.	
14.6	Special Prec			No relevant information available.	
14.7	-		ording to Anne		
	II of MARPC	0L73/78 ar	nd the IBC Cod	de	
	ulatory Infor				
15.1	•		vironmental	No relevant information available at this time.	
	Regulations		•		
45.0	for the Subs				
15.2	Chemical Sa	itety Asses	sment	A chemical safety assessment has not been carried	
				out.	
	e <mark>r Informatio</mark> ull List of Prec		Phrases:		
P210		Keep awa	ay from heat, h	hot surfaces, sparks, open flame and other ignition	
	sources. No smoking.				
P241			osion-proof eq	•••	
P242			sparking tools		
P243				static discharges.	
P261			eathing fumes.		
P264				y after handling.	
P272		Contaminated work clothing should not be allowed out of the workplace.			
P273		Avoid release to the environment.			
P280		Wear protective gloves and eye protection.			
	+P310	IF SWALLOWED: Immediately call a POISON CENTRE.			
	302+P352     IF ON SKIN: Wash with plenty of water.				
<b>P303+P361+P353</b> IF ON SKIN (or hair): Take off immediately all contaminated clothing.		ake off immediately all contaminated clothing. Rinse			
D205	skin with water.				
P305		IF IN EYES:			
P331		Do NOT induce vomiting.			
P 3 3 3 -	3+P313 If skin irritation or rash occurs: Get medical advice.				
	10212				
P337-	+P313				
P337- P351		Rinse cau	itiously with w	s: Get medical attention. vater for several minutes. ted clothing and wash it before reuse.	

P391	Collect spillage.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents and container in accordance with local regulation.	

#### WARNING/DISCLAIMER:

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. However, the accuracy of this information cannot be guaranteed by the company as the data has been obtained from different sources. We will not, therefore, accept liability for misuse of this data in damage or loss.

## **SPECIFICATION**

MATERIAL	PLAI OIL
EINECS CAS NUMBER	84696-15-1
CAS NUMBER	8007-08-7
EC NUMBER	283-634-2
BOTANICAL NAME	Zingiber cassumunar
PLANT PART	Roots
ORIGIN	Thailand

Appearance	Colourless to yellow liquid
Odour	Characteristic
Specific Gravity @ 20°C	0.880 to 0.925
Refractive Index @ 20°C	1.4770 to 1.5090
Flashpoint	47°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.

4 March 2019

# **VEGETARIAN DECLARATION**

MATERIAL	PLAI OIL

Vegan	Y	No ingredients of animal origin or animal derivatives, including additives and processing aids
Vegetarian	Y	No ingredients of animal origin, including additives and processing aids. No egg or dairy; bee products are allowed
Ovo-lacto Vegetarian	Y	May include egg, dairy and bee products. No other ingredients of animal origin or animal derivatives, including additives and processing aids are allowed

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