

CERTIFICATE OF ANALYSIS

PRODUCT NAME: LEMON, ESSENTIAL OIL ORGANIC

BATCH NUMBER: 4339901

PRODUCT INCI: CITRUS LIMON PEEL OIL

PRODUCT CODE: OCLEMO

CAS NUMBER: 8008-56-8 / 84929-31-7

EINECS NUMBER: 284-515-8

MANUFACTURING METHOD: EXPRESSED BEST BEFORE END: OCTOBER 2021

ANALYTICAL DETAILS	Range	RESULTS
Appearance	LIQUID	-
Colour	COLOURLESS — YELLOW	-
Odour	CHARACTERISTIC, FRESH LEMON	-
SPECIFIC GRAVITY @ 20°C	0.846 – 0.857	0.853
Refractive Index @ 20°C	1.472 – 1.478	1.475
OPTICAL ROTATION (°C)	+57.0 то +72.0	+66
PEROXIDE VALUE (MMOL/L)	<20.0	10.0

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

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Allergen Declaration:

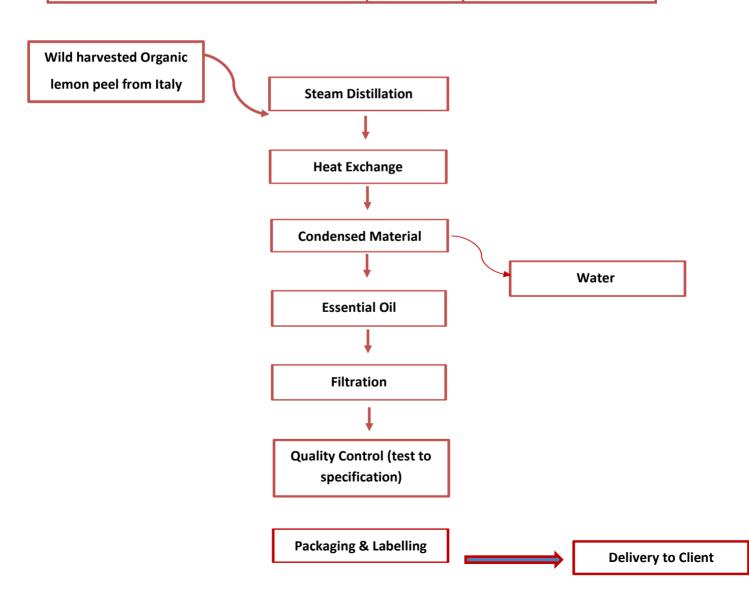
	Lemon, Essential Oil Organic Citrus Limon Peel			
	COSMETIC ALLERGENS			
The F	ollowing is from the 7th amendment of the cosmetic directive of the European Union Annex iii.			
ex Illa Reference:		CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):	
67	AMYL CINNAMAL	122-40-7	0.00	
68	BENZYL ALCOHOL	100-51-6	0.00	
69	CINNAMYL ALCOHOL	104-54-1	0.00	
70	CITRAL	5392-40-5	3.00	
71	EUGENOL	97-53-0	0.00	
72	HYDROXY-CITRONELLAL	107-75-5	0.00	
73	ISOEUGENOL	97-54-1	0.00	
74	AMYLCIN-NAMYL ALCOHOL	101-85-9	0.00	
75	BENZYL SALICYLATE	118-58-1	0.00	
76	CINNAMAL	104-55-2	0.00	
77	COUMARIN	91-64-5	0.00	
78	GERANIOL	106-24-1	0.20	
79	HYDROXY- METHYLPENTYLCYCLOHEXENECARBOXALDEHYDE	31906-04-4	0.00	
80	ANISE ALCOHOL	105-13-5	0.00	
	BENZYL CINNAMATE	103-41-3	0.00	
81 82	FARNESOL	4602-84-0	0.00	
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.00	
84	LINALOOL	78-70-6	0.30	
85	BENZYL BENZOATE	120-51-4	0.00	
86	CITRONELLOL	106-22-9	0.00	
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.00	
88	LIMONENE	5989-27-5	73.00	
89	METHYL HEPTIN CARBONATE	111-12-6	0.00	
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.00	
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.00	
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.00	
	FOOD ALLERGENS			
following is from the commisi	ion directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 200/13/EC of the European Parli	ament & Council with regards to specific food ing	oredients.	
ex Illa Reference:		PRESENT IN PRODUCT:	CONTAMINATION PRESENCE:	FACTORY PRESENCE:
1	CEREALS (CONTAINING GLUTEN)	NO	NO	YES
2	CRUSTACEANS	NO	NO	NO
3	EGGS	NO	NO	NO
4	FISH	NO	NO	NO
5	PEANUTS	NO	NO	YES
6	SOYA	NO	NO	YES
7	MILK	NO	NO	YES
8	NUTS	NO	NO	YES
9	CELERY & CELERIAC	NO	NO	NO
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
13	LUPIN	NO	NO	NO



Composition Statement & Manufacturing Flow Chart

Lemon, Essential Oil Organic

INCI Name	% Inclusion	CAS Number
Citrus Limon Peel	100	8008-56-8





IFRA STATEMENT

PRODUCT NAME: LEMON, ESSENTIAL OIL ORGANIC

PRODUCT INCI: CITRUS LIMON PEEL

PRODUCT CODE: OCLEMO

CAS NUMBER: 8008-56-8 / 84929-31-7

EINECS NUMBER: 284-515-8

MANUFACTURING METHOD: EXPRESSED

MADAR CERTIFY THAT THE ABOVE NAMED MATERIAL CONFORMS TO THE IFRA 48 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE 48^{TH} AMENDMENT OF THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Limonene	5989-27-5	≤ 72.0	Specification Std
Linalool	78-70-6	≤ 0.50	Specification Std
Citronellol	106-22-9	≤ 0.03	Restriction Stds (QRA cat.)
Citral	5392-40-5	≤ 3.5	Restriction Stds (QRA cat.)
Geraniol	106-24-1	≤ 0.10	Restriction Stds (QRA cat.)
Bergaptene	-	≤ 0.008	Restriction Stds (non QRA)
Furocoumarins	-	≤ 0.45	Restriction Stds (non QRA)

IFRA Classes	% Maximum Use Level
Category 1	1.14
Category 2	1.43
Category 3A	2.0
Category 3B	2.0
Category 3C	2.0
Category 3D	5.71
Category 4A	2.0
Category 4B	2.0



Category 4C	2.0
Category 4D	2.0
Category 5	2.0
Category 6	28.57
Category 7A	2.86
Category 7B	2.0
Category 8A	2.0
Category 8B	40.0
Category 9A	Not restricted.
Category 9B	Not restricted.
Category 9C	2.0
Category 10A	Not restricted.
Category 10B	Not restricted.
Category 11	Not restricted.

Finished product types	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
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, etcexcluding 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

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Material Safety Data Sheet

EU Regulation: 1907/2006

SECTION 1: IDENTIFICATION OF	THE SUBSTANCE	/MIXTURE A	ND OF THE COMPANY	//UNDERTAKING			
1.1 PRODUCT IDENTIFICATION							
PRODUCT NAME	LEMON, ESSENTIAL O	Lemon, Essential Oil Organic					
BIOLOGICAL DEFINITION	CITRUS LIMON PEEL OIL IS THE VOLATILE OIL OBTAINED BY COLD COMPRESSION OF THE FRESH PEEL OF THE LEMON, CITRUS LIMON (L.), RUTACEAE.						
INCI NAME	CITRUS LIMON PEEL						
SYNONYMS & TRADE NAMES	-						
INTERNAL PRODUCT CODE	OCLEMO						
CAS-No	8008-56-8 / 84929-31 <i>-</i> 7	EC No.	284-515-8	EINECS No.	284-515-8		
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET							
COMPANY ADDRESS	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA						
EMAIL	SALES@MADARCORPORATION.CO.UK						
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	A SHEET						
EMERGENCY CONTACTS	01425 655555 DI	JRING OFFICE	HOURS		01425 655555 DURING OFFICE HOURS		



SECTION 2: HAZARDS IDENTIFICATION			
2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.		
CLASSIFICATION (67/548/EEC)	NO ADDITIONAL DATA AVAILABLE.		
CLASSIFICATION (EU1272/2008)	FLAMMABLE LIQUID, HAZARD CATEGORY 3. H226 SKIN CORROSION / IRRITATION CATEGORY 2. H315 SENSITIZATION - SKIN CATEGORY 1. H317 ASPIRATION HAZARD CATEGORY 1. H304 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD CATEGORY 1. H410		
2.2 LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.		
GHS LABEL	GHS02 GHS07 GHS08 GHS09		
Signal Word	DANGER.		
Contains	LIMONENE, PINENES, CITRAL, MYRCENE		
HAZARDS STATEMENT	H226, Flammable liquid and vapour. H304, May be fatal if swallowed and enters airways. H315, Causes skin irritation. H317, May cause an allergic skin reaction. H410, Very toxic to aquatic life with long lasting effects.		
Precautionary Statements	P210, KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES NO SMOKING. P241, USE EXPLOSION-PROOF ELECTRICAL, VENTILATING AND LIGHTING EQUIPMENT. P262, DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. P273, AVOID RELEASE TO THE ENVIRONMENT. P280, WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. P301/310, IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P303/361/353, IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P331, DO NOT INDUCE VOMITING.		
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P405, STORE LOCKED UP. P501, DISPOSE OF CONTENTS/CONTAINER TO APPROVED DISPOSAL SITE, IN ACCORDANCE WITH LOCAL REGULATIONS.		
0.0	Section 16 (Other Information): Risk & Safety phrases in full.		
2.3 Other Hazards			
ADVERSE PHYSIO-CHEMICAL PROPERTIES	NO DATA		
Adverse effects on human health	WITH THE PRESENCE OF FUROCOUMARINS, THE PRODUCT MAY HAVE PHOTOTOXIC EFFECTS (SKIN).		
PBT OR VPVB ACCORDING TO ANNEX XIII	NO DATA		
SECTION 3: COMPOSITION OF INGREDIEN	ITS		
3.2 Mixtures	~ 66.0% LIMONENE CAS-NO: 5989-27-5; EC NO.: 227-813-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304 AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410		
	~ 13.0% b-Pinene CAS No: 127-91-3; EC No: 20-872-5 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317		



~ 9.0% r-Terpinene (p-mentha-1,4-diene) CAS No99-85-4; EC No: 202-794-6

CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP TOX. 1 -H304;

~ 3.0% CITRAL CAS NO: 5392-40-5; EC NO: 226-394-6

CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317

~ **2.5**% **A-PINENE** CAS No: 80-56-8; EC No: 201-291-9

CLASSIFICATION (EC 1272/2008) Flam. Liq. 3, H226; ASP. Tox. 1, H304; Skin Sens. 1, H317; Aquatic Acute 1, Aquatic Chronic 1, H410

AQUATIC CHRONIC 1, H410

~ 1.5% SABINENE CAS NO: 3387-41-5; EC NO: 222-212-4 CLASSIFICATION (EC 1272/2008) FLAMMABLE LIQ. CAT 3, H226

~ 1.5% MYRCENE CAS NO: 123-35-3; EC NO: 204-622-5

CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304, AQUATIC CHRONIC 3 - H412

SECTION 4: FIRST AID MEASURES			
4.1			
DESCRIPTION OF FIRST AID MEASURES			
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.		
INHALATION	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.		
Ingestion	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.		
SKIN CONTACT	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.		
EYE CONTACT	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.		
4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	INHALATION MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING. INGESTION IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM. SKIN CONTACT TOXIC IN CONTACT WITH SKIN. EYE CONTACT MAY CAUSE EYE IRRITATION.		
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	None expected, see Section 4.1 for further information.		

SECTION 5: FIRE FIGHTING MEASURES	
5.1 EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER.
5.2 Special hazards arising from the substance Or mixture	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
5.3 Advice for fire-fighters	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

SECTION 6: ACCIDENTAL RELEASE MEASURES ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, PERSONAL PRECAUTIONS EYES AND CLOTHING. 6.2 DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY **ENVIRONMENTAL PRECAUTIONS** GUIDFLINES. 6.3 REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN **METHODS & MATERIAL FOR CONTAINMENT AND CLEANING** SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS. UP 6.4 REFER & CONSIDER SECTION 8. REFERENCES TO OTHER SECTIONS REFER & CONSIDER SECTION 13.



SECTION 7: HANDLING & STORAGE	
7.1 PRECAUTIONS FOR SAFE-HANDLING	HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.
7.3 SPECIFIC END USE(S)	NO DATA.

NO DATA.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1
CONTROL PARAMETERS

8.2 EXPOSURE CONTROLS



EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.	
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.	
	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive	
	VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, IN CONDITIONS OF HIGH OR	
	PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE, THE FOLLOWING ENGINEERING	
RESPIRATORY EQUIPMENT	CONTROLS CAN BE USED TO MINIMISE EXPOSURE TO PERSONNEL: A) INCREASE VENTILATION OF THE AREA WITH LOCAL EXHAUST	
	VENTILATION. B) PERSONNEL CAN USE AN APPROVED, APPROPRIATELY FITTED RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGE	
	OR CANISTERS AND PARTICULATE FILTERS. C) USE CLOSED SYSTEMS FOR TRANSFERRING AND PROCESSING THIS MATERIAL. ALSO	
	REFER TO SECTIONS 2 AND 7.	
HYGIENE MEASURES	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.	
Engineering Measures	None.	
SKIN PROTECTION	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.	
PERSONAL PROTECTION	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.	
OTHER PROTECTION	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.	
Process Conditions	Ensure area is well ventilated. Avoid vapour inhalation. Safety shower & Eye bath.	
ENVIROMENTAL EXPOSURE CONTROLS	AVOID DISCHARGING INTO DRAINAGE WATER.	

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 PHYSICAL & CHEMICAL PROPERTIES	
APPEARANCE	LIQUID
COLOUR	YELLOW - LIGHT GREEN
ODOUR	CHARACTERISTIC - FRESH, LEMONY, SWEET & FRUITY



RELATIVE DENSITY	0.846 – 0.856 @ 20°C	
FLASH POINT (°C)	49°C	
REFRACTIVE INDEX @ 20 °C	APPROX. 1.472 – 1.478 @ 20°C	
SOLUBILITY IN WATER @ 20 °C	INSOLUBLE IN WATER. SOLUBLE IN ALCOHOL AND OTHER OILS.	
9.2 OTHER INFORMATION	NO DATA.	
SECTION 10: STABILITY & REACTIVITY		
10.1	Presents no significant reactivity hazards, by itself or in contact with water. Stable under normal	
REACTIVITY	TEMPERATURE AND STORAGE CONDITIONS AND RECOMMENDED USE.	
10.2 CHEMICAL STABILITY	Stable under suggested storage conditions (<15°C).	
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	No.	
10.4 CONDITIONS TO AVOID	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.	
10.5 INCOMPATIBLE MATERIALS	P.V.C	
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE	
MAZAKDOUS DECOMPOSITION PRODUCTS	a mixture of irritating fumes & Smoke & Carbon monoxide.	

SECTION 11: TOXICOLOGICAL INFORMATION			
11.1 Toxicological effects			
Αςυτε Τοχιςτιγ	LD50: 5000MG/KG BW (ORAL LD50: 10000 MG/KG BW (DE		
SKIN IRRITATION	CONSIDERED A SKIN IRRITANT (RO	DUTE: DRM). THERE MAY BE IRRITATION A	AND REDNESS AT SITE OF
EYE DAMAGE OR IRRITATION	NOT CLASSIFIED AS IRRITATING 1	O THE EYE (SOURCE CSR)	
RESPIRATORY OR SKIN SENSITIVITY	MAY CAUSE AN ALLERGIC SKIN R		
GERM CELL MUTAGENICITY	NEGATIVE. (SOURCE CSR).		
CARCINOGENICITY	NOT APPLICABLE.		
REPRODUCTIVE TOXICITY	NOT APPLICABLE.		
STOT – SINGLE EXPOSURE	NOT APPLICABLE.		
STOT – REPEATED EXPOSURE	NOT APPLICABLE.		
ASPIRATION HAZARD	MAY BE FATAL IF SWALLOWED A	ND ENTERS AIRWAYS (H304).	
OTHER INFORMATION	NO DATA.		
SECTION 12: ECOLOGICAL INFORMATION			
12.1 Toxicity	MARINE POLLUTANT. AQUATIC LIFE: EFFECTS. ALGAE/AQUATIC PLANTS: CSR). FISH:	H410; VERY TOXIC TO AQUATIC EC50/LC50 FOR FRESHWATER A LC50 FOR FRESHWATER FISH: 0.3	IGAE: 0.523 MG/L (SOURCE
	CSR). PNECs: 5.4 µG/L	/LC50 FOR FRESH WATER INVERTEBRATE: WATER: AQUA (S; U.313 MG/L (SOURCE



		AQUA (MARINE WATER):
	0.54 μG/L	
		AQUA (INTERMITTENT RELEASE):
	577 μG/L	
	1.0	SEDIMENT (FRESHWATER):
	1.3 MG/KG SEDIMENT DW	SEDIMENT (MARINE WATER):
	0.13 MG/KG SEDIMENT DW	SEDIMENT (MARINE WATER):
	ONO MONO SEDIMENTE	SEWAGE TREATMENT PLANT:
	2.1 MG/L	
	SOIL: 0.261 MG/KG SOIL DW	
	ORAL: 13.3 MG/KG	
	(SOURCE CSR).	
12.2 PERSISTENCE & DEGRADABILITY	TO BE CONSIDERED AS READILY BIODEGRADABLE BASE	D ON ITS READY BIODEGRADABILITY. OIL DOES NOT
	FULFIL THE CRITERIA FOR PERSISTENCE.	
12.3	BIO-ACCUMALATION POTENTIAL	
BIO- ACCUMULATIVE POTENTIAL	510 71000711 (21110111 0121111)	
10.4	CONSIDERED AS A READILY BIODEGRADABLE NCS. BA	ASED ON THE READY BIODEGRADABILITY OF THE
12.4 Mobility in soil	NCS, SIMULATION TESTS IN SURFACE WATER, SEDIMEN	NT AND SOIL ARE NOT REQUIRED IN ACCORDANCE
MOBILITY IN SOIL	WITH EFFECTS.	
12.5		
RESULTS OF PBT & VPVB ASSESSMENT	This substance does not meet the PBT/VPVB cri	TERIA OF REACH, ANNEX XIII.
12.6	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWE	DC OD OTHER WATERWAYS
OTHER ADVERSE EFFECTS	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEVVE	KS OR OTHER WATERWATS.
SECTION 13: DISPOSAL INFORMATION		
OLGITOR FOR DISTORAL INI ORMATION		
13.1	ALWAYS RECOVER SPILLED PRODUCT, DISCARD WAST	E MATERIAL WITH ALITHORIZED WASTE
WASTE TREATMENT METHODS	MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH	
THOSE INCOMENT METHODS		

SECTION 14: Transport Information		
14.1 TRANSPORT INFORMATION		
UN NUMBER	ROAD: 1169 RAIL: 1169 AIR: 1169	
14.2 UN SHIPPING NAME	EXTRACTS, AROMATIC, LIQUID.	
14.3 TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS: 3 FLAMMABLE LIQUID. IMDG CLASS: 3 FLAMMABLE LIQUID. ICAO CLASS/DIVISION: 3 FLAMMABLE LIQUID. TRANSPORT LABELS FLAMMABLE 3	
14.4 PACKING GROUP	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP III	
14.5 ENVIROMENTAL HAZARDS	Environmentally Hazardous Substance/Marine Pollutant	



14.6 SPECIAL PRECAUTIONS FOR USER	TARIFF CODE: 3301131000. THIS PRODUCT CONTAINS FLAMMABLES AND DANGEROUS FOR THE ENVIRONMENT. IN CASE ON POURING OUT, MAKE SURE LABEL NEW PACKAGING ACCORDINGLY. REPRODUCING ORIGINAL LABEL WITH RELEVANT SYMBOLS.
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO ADDITIONAL DATA.
SECTION 15: REGULATORY INFORMATION	
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
EU DIRECTIVES	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 TH DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO793/93 & COMMISSION REGULATION (EC) NO1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 NO 716).
Approved Code of Practice	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2 CHEMICAL SAFETY ASSESSMENT	-

SECTION 16: OTHER INFORMATION



	11224 FLANANIS HOUR AND VAROUR
	H226, FLAMMABLE LIQUID AND VAPOUR.
Hazard and/ or Precautionary Statements in full	H304, MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
'	H315, CAUSES SKIN IRRITATION.
	H317, MAY CAUSE AN ALLERGIC SKIN REACTION.
	H410, VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.	
ABBREVIATIONS & ACRONYMS:	
MSDS	MATERIAL SAFETY DATA SHEET.
INCI	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
CAS	CHEMICAL ABSTRACT SERVICE.
IMDG	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN
ADK	AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
RID	International Carriage of Dangerous Goods by Rail.
ICAO	International Civil Aviation Organization.
ADN	International Carriage of Dangerous Goods by Inland Waterways.
GHS	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
Trem Card	TRANSPORT EMERGENCY CARD.
STOT	SPECIFIC TARGET ORGAN TOXICITY.

DOCUMENTATION REVISION	
DATE	CHANGE DESCRIPTION
10 TH APRIL 2018	Data Launch



SPECIFICATION SHEET

PRODUCT NAME: LEMON, ESSENTIAL OIL ORGANIC

PRODUCT INCI: CITRUS LIMON PEEL

PRODUCT CODE: OCLEMO

CAS NUMBER: 8008-56-8 / 84929-31-7

EINECS NUMBER: 284-515-8

MANUFACTURING METHOD: EXPRESSED

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
Colour	COLOURLESS — YELLOW
Odour	Characteristic, Fresh Lemon
SPECIFIC GRAVITY @ 20°C	0.846 – 0.857
Refractive Index @ 20°C	1.472 – 1.478
OPTICAL ROTATION (°C)	+57.0 to +72.0
PEROXIDE VALUE (MMOL/L)	<20.0

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

DOCUMENTATION REVIEW DATE:

24TH MAY 2018

The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with MADAR regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations. The information is not to be disclosed to others, reproduced or transmitted in whole or in part without permission from MADAR.



GMO Statement

PRODUCT NAME: Lemon, Essential Oil Organic

 \mbox{MADAR} Corporation Limited can confirm that the above listed product is GMO Free.

12/02/18



Vegetarian & Vegan Suitability Statement

PRODUCT NAME: Lemon, Essential Oil Organic

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

12/02/18