

#### **CERTIFICATE OF ANALYSIS**

PRODUCT DESCRIPTION
APPEARANCE
BATCH NUMBER
BEST BEFORE DATE

FENNEL OIL SWEET PALE YELLOW LIQUID 4518904 September 2026

ANALYSIS	RESULTS	SPECIFICATION	
Refractive Index 20degC	1.541	>= 1.520 <= 1.550	
Optical Rotation	14.5	>= 5.0 <= 25.0	
Density (g/ml,20c)	0.960	>= 0.940 <= 0.975	
Estragole	2.2	>= 0.2 <= 6.0	
Anethole (cis)	0.1	>= 0.0 <= 0.5	

#### **Food Allergen Declaration**

According to (EU) 1169/2011

Compound Name : FENNEL OIL SWEET

We have carefully reviewed the ingredients in this product.

Allergen Source	Present
Celery and products thereof	No
Crustaceans and products thereof	No
Eggs and products thereof	No
Fish and products thereof	No
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof	No
Lupin and products thereof	No
Milk and products thereof (including lactose)	No
Molluscs and products thereof	No
Mustard and products thereof	No
Nuts i.e. Almond, Hazelnut, Walnut, Cashew, Pecan nut, Brazil nut, Pistachio nut, Macadamia nut and Queensland nut and products thereof	No
Peanuts and products thereof	No
Sesame seeds and products thereof	No
Soybeans and products thereof	No
Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO2	No

#### **GMO** Declaration

According to 1829/2003/EC

Compound Name : FENNEL OIL SWEET

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	-
Rapeseed (Canola)	No	-
Soya	No	-
Sugar Beet	No	-
Tomato	No	-
Wheat	No	-

Product Name Fennel Oil Sweet

We certify that the above product is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), 50th Amendment

to the IFRA Code of Practice (published June,2021), provided it is used in the following class(es) at a maximum concentration level of:

IFRA Class	Maximum level of use (%)
Category 1	0.34
Category 2	0.66
Category 3	0.34
Category 4	12.00
Category 5A	2.14
Category 5B	0.18
Category 5C	0.34
Category 5D	0.06
Category 6	0.89
Category 7A	0.34
Category 7B	0.34
Category 8	0.06
Category 9	1.43
Category 10A	1.43
Category 10B	1.43
Category 11A	0.06
Category 11B	0.06
Category 12	42.9

Components	
Estragole	3.5%
p-methoxy benzaldehyde	0.3%

The IFRA Standards regarding use restrictions are based on safety assessments by the panel of experts of the RIFM and are enforced by the IFRA Scientific Committee.

This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents. It is the ultimate responsibility of our customer to ensure the safety of the final product with other tests if necessary.

#### ANNEX : Definition of IFRA Classes 50th Amendment

IFRA class	Product application
Category 1	Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) Children's toys
Category 2	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deocologne, etc.) Body sprays (including body mist)
Category 3	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer.
	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
Category 4	Hydroalcoholic and non-hydroalcoholic fine fragrance of all 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
Category 5A	Scent strips for hydroalcoholic products Body creams, oils, lotions of all types
Category JA	Foot care products (creams and powders)
	Insect repellent (intended to be applied to the skin)
	All powders and talc (excluding baby powders and talc)
Category 5B	Facial toner
	Facial moisturizers and creams
Category 5C	Hand cream
	Nail care products including cuticle creams, etc.
Catagon ( 5D	Hand sanitizers
Category 5D Category 6	Baby cream/lotion, baby oil, baby powders and talc Toothpaste
Outogoly 0	Mouthwash, including breath sprays
	Toothpowder, strips, mouthwash tablets
Category 7A	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes
Category 7B	Hair sprays of all types (pumps, aerosol sprays, etc.)
	Hair styling aids non sprays (mousse, gels, leave- on conditioners)
	Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes
	Shampoo - Dry (waterless shampoo)
Category 8	Hair deodorizer Intimate wipes
Category	Tampons
	Baby wipes
	Toilet paper (wet)
Category 9	Bar soap
	Shampoo of all type
	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 (stick, gels, foams, etc.)
	All depilatories (including facial) and waxes for mechanical hair removal
	Shampoos for pets

#### **IFRA class Product application** Category 10A Hand wash laundry detergent (including concentrates) 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 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, deodorizers 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 (Odorized distilled water) Category 10B Animal sprays – sprays applied to animals of all types Air freshener sprays, manual, including aerosol and pump Aerosol/spray insecticides Category 11A Feminine hygiene conventional pads, liners, interlabial pads Diapers (baby and adult) Adult incontinence pant, pad Toilet paper (dry) Tights with moisturizers Category 11B Scented socks, gloves Facial tissues (dry tissues) Napkins Paper towels Wheat bags Facial masks (paper/protective) e.g.surgical masks not used as medicaldevice Fertilizers, solid (pellet or powder) Category 12 Candles of all types (including encased) Laundry detergents for machine wash 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 Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders) Fuels Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays Joss sticks or incense sticks Dishwash detergent and deodorizers - 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)



#### **CERTIFICATE OF ANALYSIS**

#### FENNEL OIL SWEET

#### Batch No.: MM4267107

Analysis Description	Minimum Value	Maximum Value	Result	Compliance
Appearance			Mobile liquid	Pass
Colour			Colourless - pale yellow	Pass
Odour			Characteristic of plant	Pass
Specific Gravity at 20°C	0.950	0.970	0.961	Pass
Refractive Index at 20°C	1.530	1.550	1.538	Pass

#### Best before End: October 2019

Shelf life of this product depends very much on storage conditions, particularly temperature and exposure to light and air.

Expiry date must be considered as subjective; the expiry date given here is based on the best of our knowledge and experience of the material when stored under recommended conditions in original unopened containers.

Due to the natural ingredients contained in many of our products, there may be a slight batch to batch variation in the colour, odour or consistency. However, we ensure that this does not affect the quality and efficacy of the products in any way.

We hereby certify that the above material meets the required specification and is released for free sale.

This is a computer-generated document. No signature is required.

SAFETY DATA S CLP: According to 2015/830/E		Printed on	06 Apr 2022
<i>Version 4 Revised 14/0 11:46:16</i>	05/2021		
Section 1. Identification 1.1 Product Identifier Product Name	of the substance/mixture and of th	ne company/	undertaking
Code Number Alternative Name	RCP-79640		
REACH Reg No	Not registered		
1.2 Relevant identified	uses of the substance or mixture ar	nd uses advis	ed against
Concentrated material	for manufacturing purposes only		
1.3 Details of the supp	lier of the safety data sheet		
	Madar Corporation Limited 19 - 20 Sandlehea Industrial Estate Fordingbridge SP6 1PA		
Telephone Number Email Address	+44 (0)1425 655555 technical@madarcorporation.co.uk		
1.4 Emergency Tel No	+44 (0)1425 655 555		
Section 2. Hazard I dent	ification		
2.1 Classification of the	e substance or mixture		
ATO 4	Acute toxicity, oral, category 4		
AH 1 SS 1	Aspiration hazard, category 1 Skin sensitisation, category 1		
MUT 2	Germ cell mutagenicity, category 2		
CAR 2	Carcinogenicity, category 2		
EH C2	Aquatic hazard, chronic, category 2		
2.2 CLP Label elements	5		

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CLP classification Hazard Pictogra	according to Regulation (EC) No 1272/20 ms	08
Signal Word	Danger	
Hazard Stateme	nts	
H302	Harmful if swallowed	
H304	May be fatal if swallowed and enter	s airways
H317	May cause an allergic skin reaction	
H341	Suspected of causing genetic defect	ts
H351	Suspected of causing cancer	
H411	Toxic to aquatic life with long lastin	g effects
Precautionary S	tatements	
P262	Do not get in eyes, on skin, or on c	lothing.
P273	Avoid release to the environment.	
P280	Wear protective gloves and eye pro	tection
P301+P310	IF SWALLOWED: Immediately call a	POISON CENTRE.
P331	Do NOT induce vomiting.	
P391	Collect spillage.	
2.3 Other Hazards Contains Limoner	e which may produce an allergic reaction	
No further inform	ation available at this time	
	ition / information on ingredients ed here for hazardous components are for illustrative purpose	s only

SAFETY DAT		Printed on	06 Apr 20.
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3.1 Substances			
Description	FENNEL OIL SWEET		
EC/EINECS	282-892-3		
CAS Number	84455-29-8		
USCAS Number	8006-84-6		
Hazardous compo	onents		
ID Numbers	Chemical Name, Classification and Hazards		Conc (%)
CAS 4180-23-8	Anethole		75,0000
EINECS 224-052-0 REACH	SS 1B H317		75.0000
CAS 80-56-8	alpha-Pinene		5.0000
EINECS 201-291-9 REACH	AH 1; SCI 2; SS 1B; EH A1, C1 H304, H315, H317, H400, H410		
CAS 5989-27-5 EINECS 227-813-5	d-Limonene (p-Mentha-1,8-diene)		4 0000
REACH	AH 1; SCI 2; SS 1B; EH A1, C1 H304, H315, H317, H400, H410		4.0000
CAS 140-67-0 EINECS 205-427-8	Estragole (Methyl chavicol)		3.0000
REACH	ATO 4(1230);SS 1B;CAR 2;MUT 2 H302,H317,H341,H351		3.0000
CAS 99-83-2 EINECS 202-792-5	alpha-Phellandrene		2.0000
REACH	FL 3:AH 1 H226,H304		2.0000
CAS 99-87-6	para-Cymene		1 0000
EINECS 202-796-7 REACH	FL 3:AH 1:EH C2 H226,H304,H411		1.0000
CAS 123-35-3	Myrcene		1 0000
EINECS 204-622-5 REACH	FL 3;AH 1;SCI 2;EDI 2 H226,H304,H315,H319		1.0000
CAS 13466-78-9 EINECS 236-719-3	delta-3-Carene		1.0000
REACH	AH 1:SCI 2:SS 1B H304,H315,H317		1.0000
CAS 13877-91-3	Ocimene (3,7-Dimethyl-1,3,6-octatriene)		1 0000
EINECS 237-641-2 REACH	AH 1 H304		1.0000

_	FETY DATA SHEET According to 2015/830/EU	Printed on	06 Apr 2022
	rsion 4 Revised 14/05/2021 46: 16		
Tak 4.1 A R A R	tion 4. First Aid measures e phrases in section 2 into account Description of first aid measures fter inhalation emove from the exposure area to fresh air. Contact a doctor i fter skin contact emove contaminated clothing. Wash thoroughly with soap and dvice if irritation persists or there is any sign of tissue damage	d water. Seek	medical
A	fter eye contact lush with plenty of water and seek medical advice if necessary		
W 4.2	fter ingestion /ash mouth with plenty of water and obtain medical advice im Most important symptoms and effects, both acute and o o further information available at this time	-	
	Indication of immediate medical attention and special to further information available at this time	treatment ne	eeded
5.1 C D 5.2 W 5.3	ion 5. Fire-fighting measures Extinguishing Media arbon dioxide, foam or dry powder O NOT USE A DIRECT WATER JET. Special hazards arising from the substance or mixture lay produce Carbon dioxide and unidentified organic compound Advice for fire-fighters /ear protective clothing and avoid inhalation of vapours.	ds.	
6.1 R A E 6.2 D	ion 6. Accidental release measures Personal precautions, protective equipment and emerg emove all sources of ignition. void inhalation, skin and eye contact. nsure proper ventilation. Environmental precautions to not discharge directly into drains or the soil. Keep away fro vater		

#### SAFETY DATA SHEET Printed on 06 Apr 2022 CLP: According to 2015/830/EU Version 4 Revised 14/05/2021 11:46:16 6.3 Methods and material for containment and cleaning up Soak up spillage with sand or other inert absorbant material such as earth or vemiculite; transfer used material to a suitable waste container and dispose in accordance with regulations. 6.4 Reference to other sections Refer to information in Sections 7, 8 and 13 Section 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 Conditions for safe storage, including any incompatibilities Store in tightly sealed original containers away from ignition sources and in a cool place. 7.3 Specific end use(s) No further information available Section 8. Exposure controls / personal protection 8.1 Control Parameters No information available 8.2 Exposure controls Engineering controls No information available Individual protection measures Refer to Section 5 for specific fire/chemical personal protective equipment advice. Always wash routinely before breaks, meals and at the end of the work period. Eye/face protection Wear safety goggles. Hand protection Wear chemically resistant disposable gloves. Other skin protection Wear overalls. Always wash routinely before breaks, meals and at the end of the work period. Respiratory protection Not generally required. Use inhalation protection in poorly ventilated areas

SAFETY DATA SHEET CLP: According to 2015/830/EU	Printed on 06 Apr 2022			
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Thermal hazards No information available				
Environmental exposure contro No information available	ls			
Section 9. Physical and chemical p	roperties			
9.1 Information on basic physical	and chemical properties			
FLASH POINT (°C)	62			
Colour	PALE YELLOW			
Aroma	SWEET ANISE LIKE			
Solubility	INSOLUBLE			
9.2 Other information No further information available				
Section 10. Stability and reactivity	/			
10.1 Reactivity Not determined				
10.2 Chemical Stability Not determined				
10.3 Possibility of hazardous reactions Not determined				
10.4 Conditions to avoid Extreme temperatures				
10.5 I ncompatible materials Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.				
10.6 Hazardous decomposition products Not determined				
Section 11. Toxicological information				
11.1 Information on toxicological effects				
Acute toxicity				

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Skin corrosion / irritation No data available Serious eye damage / irritation

No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity

No data available

Reproductive 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

Symptoms related to the physical, chemical and toxicological characteristics No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available

Interactive effects

No data available

Other information

No data available

Section 12. Ecological information

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12.1 Toxicity No data available; avoid soil, surf	2.1 Toxicity No data available; avoid soil, surface water and water-bearing stratum contamination.					
12.2 Persistence and degradabili No data available	2.2 Persistence and degradability No data available					
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						
<ul> <li>Section 13. Disposal considerations</li> <li>Please refer to the information in section 8 (Exposure controls and personal protection)</li> <li>13.1 Waste treatment methods</li> <li>Dispose in accordance with the law and local regulations. Treat as trade effluent.</li> </ul>						
Section 14. Transport information	1					
14.1 UN number	3082					
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LIMONENE, PINENE, MYRCENE)					
14.3 Transport hazard class(es)	9					
14.4 Packing group	111					
Tunnel Code	(E)					
14.5 Environmental Hazards						
Marine Pollutant - contains enviro LIMONENE,PINENE,MYRCENE)	arine Pollutant - contains environmentally hazardous substances ( MONENE,PINENE,MYRCENE)					
14.6 Special precautions for user						
No relevant information available						
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable						

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Section 15. Regula	tory information		
substance or mixt	•	ons/legislation specific for the	
15.2 Chemical saf	ety assessment		
	assessment has not been carried	d out	
-			
Section 16. Other i	nformation		
Full list of preca	autionary phrases		
P262	Do not get in eyes, on skir	n, or on clothing.	
P273	Avoid release to the enviro	5	
P280	Wear protective gloves and	d eye protection	
P301+P310	·	tely call a POISON CENTRE.	
P331	Do NOT induce vomiting.	-	
P391	Collect spillage.		
Wording of any	hazard classes listed in section	on 3	
FL 3	Flammable liquid, category	y 3	
ATO 4	Acute toxicity, oral, catego		
AH 1	Aspiration hazard, categor	-	
SCI 2	Skin corrosion/irritation, c	-	
SS 1B	Skin sensitisation, categor		
EDI 2	Eye damage/irritation, cate	egory 2	
MUT 2	Germ cell mutagenicity, ca	ategory 2	
CAR 2	Carcinogenicity, category 2	2	
EH A1	Aquatic hazard, acute, cate	egory 1	
EH C1	Aquatic hazard, chronic, ca	ategory 1	
EH C2	Aquatic hazard, chronic, ca	ategory 2	
Wording of any	hazard statements listed in se	ection 3	
H226	Flammable liquid and vapo	bur	
H302	Harmful if swallowed		
H304	May be fatal if swallowed a	and enters airways	
H315	Causes skin irritation		
H317	May cause an allergic skin	reaction	

#### SAFETY DATA SHEET

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H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

#### PRODUCT SPECIFICATION

Product Name	:	FENNEL OIL SWEET	
Flash Point deg C	:	62	
Aroma / Taste	:	SWEET, ANISE LIKE	
Appearance / Physical State	:	PALE YELLOW LIQUID	
Composition	:	FOENICULUM VULGARE	
Refractive Index 20degC			>= 1.520 <= 1.550
Optical Rotation			>= 5.0 <= 25.0
Density (g/ml,20c)			>= 0.940 <= 0.975
Estragole			>= 0.2 <= 6.0
Anethole (cis)			>= 0.0 <= 0.5

Version Number : 5 Version Date : 21 March 2022

#### **Vegetarian Declaration** Compound Name : FENNEL OIL SWEET No ingredients of animal origin or animal derivatives, including additives and processing aids Vegan Υ No ingredients of animal origin, including additives and processing aids. No egg or dairy; bee products are Vegetarian Υ allowed May include egg, dairy and bee products. No other Ovo-lacto ingredients of animal origin or animal derivatives, Υ including additives and processing aids are allowed Vegetarian