

CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION
APPEARANCE
BATCH NUMBER
BEST BEFORE DATE

FENNEL OIL SWEET
PALE YELLOW LIQUID
4476204
July 2025

ANALYSIS	RESULTS	SPECIFICATION
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



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 tovs

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

Scent strips for hydroalcoholic products

Category 5A Body creams, oils, lotions of all types

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.

Hand sanitizers

Category 5D Baby cream/lotion, baby oil, baby powders and talc

Category 6 Toothpaste

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)

Hair deodorizer

Category 8 Intimate wipes

Tampons
Baby wipes
Toilet paper (wet)

Dor soon

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)

Category 11B Tights with moisturizers

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 SHEET

Printed on 06 Apr 2022

CLP: According to 2015/830/EU

Version 4 Revised 14/05/2021 11:46:16

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name FENNEL OIL SWEET

Code Number RCP-79640

Alternative Name

REACH Reg No Not registered

1.2 Relevant identified uses of the substance or mixture and uses advised against Concentrated material for manufacturing purposes only

1.3 Details of the supplier of the safety data sheet

Madar Corporation Limited

19 - 20 Sandlehea Industrial Estate

Fordingbridge SP6 1PA

Telephone Number +44 (0)1425 655555

Email Address technical@madarcorporation.co.uk

+44 (0)1425 655 555

1.4 Emergency Tel No

Section 2. Hazard Identification

2.1 Classification of the substance or mixture

ATO 4 Acute toxicity, oral, category 4
AH 1 Aspiration hazard, category 1
SS 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

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CLP classification according to Regulation (EC) No 1272/2008

Hazard Pictograms



Signal Word Danger

Hazard Statements

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H317 May cause an allergic skin reactionH341 Suspected of causing genetic defects

H351 Suspected of causing cancer

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE.

P331 Do NOT induce vomiting.

P391 Collect spillage.

2.3 Other Hazards

Contains Limonene which may produce an allergic reaction

No further information available at this time

Section 3. Composition / information on ingredients

Any percentage values listed here for hazardous components are for illustrative purposes only



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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 components

ID Numbers	Chemical Name, Classification and Hazards	Conc (%)
CAS 4180-23-8 EINECS 224-052-0 REACH	Anethole SS 1B H317	75.0000
CAS 80-56-8 EINECS 201-291-9 REACH	alpha-Pinene AH 1;SCI 2;SS 1B;EH A1,C1 H304,H315,H317,H400,H410	5.0000
CAS 5989-27-5 EINECS 227-813-5 REACH	d-Limonene (p-Mentha-1,8-diene) AH 1;SCI 2;SS 1B;EH A1,C1 H304,H315,H317,H400,H410	4.0000
CAS 140-67-0 EINECS 205-427-8 REACH	Estragole (Methyl chavicol) ATO 4(1230);SS 1B;CAR 2;MUT 2 H302,H317,H341,H351	3.0000
CAS 99-83-2 EINECS 202-792-5 REACH	alpha-Phellandrene FL 3;AH 1 H226,H304	2.0000
CAS 99-87-6 EINECS 202-796-7 REACH	para-Cymene FL 3;AH 1;EH C2 H226,H304,H411	1.0000
CAS 123-35-3 EINECS 204-622-5 REACH	Myrcene FL 3;AH 1;SCI 2;EDI 2 H226,H304,H315,H319	1.0000
CAS 13466-78-9 EINECS 236-719-3 REACH	delta-3-Carene AH 1;SCI 2;SS 1B H304,H315,H317	1.0000
CAS 13877-91-3 EINECS 237-641-2 REACH	Ocimene (3,7-Dimethyl-1,3,6-octatriene) AH 1 H304	1.0000

Refer to section 16 for the wording of listed classification and hazard statement codes



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Section 4. First Aid measures

Take phrases in section 2 into account

4.1 Description of first aid measures

After inhalation

Remove from the exposure area to fresh air. Contact a doctor if necessary.

After 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.

After eye contact

Flush with plenty of water and seek medical advice if necessary.

After ingestion

Wash mouth with plenty of water and obtain medical advice immediately.

- 4.2 Most important symptoms and effects, both acute and delayed No further information available at this time
- 4.3 Indication of immediate medical attention and special treatment needed No further information available at this time

Section 5. Fire-fighting measures

5.1 Extinguishing Media

Carbon dioxide, foam or dry powder DO NOT USE A DIRECT WATER JET.

- 5.2 Special hazards arising from the substance or mixture
 - May produce Carbon dioxide and unidentified organic compounds.
- 5.3 Advice for fire-fighters

Wear protective clothing and avoid inhalation of vapours.

Section 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.

6.2 Environmental precautions

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



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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



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Thermal hazards

No information available

Environmental exposure controls

No information available

Section 9. Physical and chemical properties

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 Incompatible 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, surface water and water-bearing stratum contamination.

12.2 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

Section 13. Disposal considerations

Please refer to the information in section 8 (Exposure controls and personal protection)

13.1 Waste treatment methods

Dispose in accordance with the law and local regulations. Treat as trade effluent.

Section 14. Transport information

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 III

Tunnel Code (E)

14.5 Environmental Hazards

Marine Pollutant - contains environmentally hazardous substances (LIMONENE, 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. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No relevant information available at this time

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

Section 16. Other information

Full list of precautionary phrases

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE.

P331 Do NOT induce vomiting.

P391 Collect spillage.

Wording of any hazard classes listed in section 3

FL 3 Flammable liquid, category 3 ATO 4 Acute toxicity, oral, category 4 AH 1 Aspiration hazard, category 1 SCI 2 Skin corrosion/irritation, category 2 SS 1B Skin sensitisation, category 1B EDI 2 Eye damage/irritation, category 2 MUT 2 Germ cell mutagenicity, category 2 CAR 2 Carcinogenicity, category 2 Aquatic hazard, acute, category 1 EH A1

EH C1 Aquatic hazard, acute, category 1
EH C2 Aquatic hazard, chronic, category 2

Wording of any hazard statements listed in section 3

H226 Flammable liquid and vapour

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction



SAFETY DATA SHEET Printed on 06 Apr 2022 CLP: According to 2015/830/EU Version 4 Revised 14/05/2021 11:46:16 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</th>

 Density (g/ml,20c)
 >= 0.940
 <= 0.975</td>

 Estragole
 >= 0.2
 <= 6.0</td>

Anethole (cis) >= 0.0 <= 0.5

Version Number : 5 Version Date : 21 March 2022



Vegetarian Declaration

Compound Name : FENNEL OIL SWEET

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