



CERTIFICATE OF ANALYSIS

PRODUCT	: CORIANDER SEED OIL
BATCH NUMBER	: 4357101
BEST BEFORE END	: APRIL 2022
Appearance	: Clear, bright, pale yellow liquid
Odour	: Characteristic
Specific gravity @ 20°C	: 0.8693
Refractive Index @ 20°C	: 1.464
Optical rotation	: 8.8



DECLARATION OF ALLERGENS

DIRECTIVE 76/768/EEC (and its amendments) LIST OF ALLERGENS (Skin care)

PRODUCT	CORIANDER SEED ESSENTIAL OIL
INCI NAME	Coriandrum Sativum Seed Oil
PRODUCT CODE	OECORI

MATERIAL	CAS NUMBER	TOTAL ALLERGEN INCLUSION LEVEL (%)
AMYL CINNAMAL	122-40-7	-
BENZYL ALCOHOL	100-51-6	-
CINNAMYL ALCOHOL	104-51-6	-
CITRAL	5392-40-5	-
EUGENOL	97-53-0	-
HYDROXYCITRONELLAL	107-75-5	-
ISO EUGENOL	97-54-1	-
AMYL CINNAMYL ALCOHOL	101-85-9	-
BENZYL SALICYLATE	118-58-1	-
CINNAMAL	104-55-2	-
COUMARIN	91-64-5	-
GERANIOL	106-24-1	3.00
HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	31906-04-4	-
ANISE ALCOHOL	105-13-5	-
BENZYL CINNAMATE	103-41-3	-
FARNESOL	4602-84-0	-
BUTYLPHENYL METHYLPROPIONAL	80-54-6	-
LINALOOL	78-70-6	78.00
BENZYL BENZOATE	120-51-4	-
CITRONELLOL	106-22-9	-
HEXYL CINNAMAL	101-86-0	-
LIMONENE	5989-27-5	5.00
METHYL 2-OCTYNOATE	111-12-6	-
ALPHA-ISOMETHYL IONONE	127-51-5	-
EVERNIA PRUNASTRI EXTRACT	90028-68-5	-
EVERNIA FURFURACEA EXTRACT	90028-67-4	-

DATE: 17.04.2014



IFRA STANDARDS CONFORMITY CERTIFICATE

Fragrance compound

Coriander Essential Oil

<i>IFRA class(es) [see respective IFRA guidance for details]</i>	<i>Level of use (%)*</i>

**Actual use level or maximum use level*

The IFRA Standards are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM).

Recommendation: Information about presence and concentration of IFRA restricted/prohibited materials in the Coriander Oil is as follows:

IFRA Restricted materials:

Ingredient name	CAS	Concentration %
Geraniol	106-24-1	1.6

IFRA prohibited materials: None

Ingredient name	CAS	Details
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We certify that the above substance is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), 48th Amendment to the IFRA Code of Practice (published June, 2015), It does not appear in the IFRA list of standards and so no information is available on its use in the IFRA Classes:



SAFETY DATA SHEET

Coriander Oil

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Coriander oil

EC number:	283-880-0
EC name:	Coriander, ext
CAS number (EC inventory):	84775-50-8
Registration number	

1.2 Relevant identified uses of the substance or mixture and uses advised against

Multiple uses in the Flavour and Fragrance industries

1.3 Details of the supplier of the safety data sheet

MADAR Corporation Ltd
19-20 Sandleheath Industrial Estate
Fordingbridge
Hampshire
SP6 1PA

Tel: 01425 655555
E mail: sales@madarcorporation.co.uk

1.4 Emergency telephone number

In case of emergen Tel. 01425 655555 during office hours

SECTION 2: Hazards Identification

2.1 Classification of the substance

Classification in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008

Hazard Statements

H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P273 - Avoid release to the environment

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P331 - Do NOT induce vomiting

P391 - Collect spillage

2.2 Label elements

Signal Word DANGER

Pictograms



2.3 Other hazards

SECTION 3: Composition

3.1 Substances

Coriander oil 100 %

Major components

alpha-pinene	3 – 7 %
limonene	1.5 – 5 %
gamma-terpinene	1.5 – 8 %
p-cymene	0.5 – 4 %
camphor	3 – 6 %
linalol	65 – 78 %
alpha-terpineol	0.1 – 1.5 %
geranyl acetate	0.5 – 4 %
geraniol	0.5 – 3 %

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Irrigate the eyes with copious volumes of water for at least 15 minutes with the eye lids held open. Seek medical advice if inflammation persists

INHALATION: Remove person to fresh air, remove any contaminated clothing, in case of breathing difficulty seek medical advice.

SKIN CONTACT: Wash affected area with soap and running water, if irritation persists seek medical advice.

INGESTION: Dilute internally with water, do not induce vomiting. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required

SECTION 5: Firefighting Measures

5.1 Extinguishing media Foam, CO₂, Dry Powder

5.2 Special hazards arising from the substance or mixture Combustion products: Carbon monoxide, Carbon dioxide, Smoke

5.3 Advice for fire fighters Do Not Use Water as extinguishing media. No special fire fighting equipment required.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear clothing suitable for an emergency

6.2 Environmental precautions

Contain the leak with earth or sand. Prevent from entering drains, sewers and water courses. If this cannot be done, advise the local authority.

6.3 Methods and materials for containment and clearing up

Absorb spillage onto sand or earth. Transfer to a suitable container for disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Handle in a well ventilated area, away from sources of ignition, **DO NOT SMOKE.**

7.2 Conditions for safe storage, including any incompatibilities

Store in well-filled, tightly closed containers away from heat, light and sources of ignition.

7.3 Specific end uses

Used in Flavours and Fragrances.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters No data available

Substance	8 hour exposure limit	15 minute exposure limit	Source, Type

DNELs for workers No data available

Exposure pattern	Route	DNEL	Dose descriptor
Acute - systemic effects	Dermal		
Acute - systemic effects	Inhalation		
Acute - local effects	Dermal		
Acute - local effects	Inhalation		
Long-term - systemic effects	Dermal		
Long-term - systemic effects	Inhalation		
Long-term - local effects	Dermal		
Long-term - local effects	Inhalation		

PNECs No data available

Compartment	PNEC	Dose descriptor
Fresh water		
Sewage treatment		

8.2 Exposure controls

Engineering controls – Use suitable handling equipment

Respiratory protection – Use only in well ventilated areas. Use protection in poor ventilation.

Hand Protection – Wear gloves

Eye protection – Wear goggles

Skin protection – Wear suitable protective clothing

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Clear, mobile liquid
Odour: Characteristic of coriander
Odour threshold: No data available
pH: Not applicable
Melting point: Not applicable
Boiling point: Not applicable
Flashpoint: 66°C
Evaporation rate: No data available
Flammability: Combustible
Upper/lower flammability limits: No data available
Vapour pressure: No data available
Vapour density: No data available
Relative density: 0.862 – 0.878
Solubility in water: Sparingly soluble
Solubility in other solvents: Soluble
Partition coefficient (log Kow): No data available
Autoignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidising properties: None

9.2 Other information

Particle size: Not applicable

SECTION 10: Stability and Reactivity

- 10.1 **Reactivity:** Will react with oxidising agents
- 10.2 **Chemical stability:** Stable under proper storage conditions.
- 10.3 **Possibility of hazardous reactions:** Not if stored correctly
- 10.4 **Conditions to avoid:** Do not leave containers open to the air. Avoid storage at elevated temperatures and sources of ignition.
- 10.5 **Incompatible materials:** Oxidising agents
- 10.5 **Hazardous decomposition products:** On combustion may produce smoke, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

Toxicokinetics

- (a) **acute toxicity:** LD₅₀ 4130 mg/kg (Rat). Dermal 5000mg/kg (Rabbit)
- (b) **skin corrosion/irritation:** Causes skin irritation
- (c) **serious eye damage/irritation:** May cause eye irritation
- (d) **respiratory/skin sensitisation:** May cause an allergic skin reaction
- (e) **germ cell mutagenicity:** No data available
- (f) **carcinogenicity:** No data available
- (g) **reproductive toxicity:** No data available
- (h) **STOT-single exposure:** No data available
- (i) **STOT-repeated exposure:** No data available

(j) aspiration hazard: No data available

SECTION 12: Ecological Information

- 12.1 Toxicity: No data available
- 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

SECTION 13: Disposal Considerations

13.1 Waste treatment methods – Do not dispose into drainage systems. Ensure disposal is within local and national guidelines. Consult a specialist waste disposal company for correct disposal procedure and/or seek other expert advice.

SECTION 14: Transport Information

	ADR	IMDG	ICAO
14.1 UN Number	3082		
14.2 UN Proper shipping name	Coriander oil		
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III		
14.5 Environmental hazards			
14.6 Special precautions for user			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			

SECTION 15: Regulatory Information

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

This substance is listed as existing in Europe

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008

DSD Dangerous Substances Directive 67/548/EEC

DPD Dangerous Preparations Directive 1999/45/EC

EC European Community/Commission

PBT Persistent, Bioaccumulative and Toxic

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006

vPvB very Persistent, very Bioaccumulative

References: Food Cosmetics Toxicology 11(4) 1077 (1973)

The information in this safety data sheet is based on the properties of the material known to MADAR Corporation Ltd at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. This document is not intended for quality assurance purposes.



SPECIFICATION

CORIANDER ESSENTIAL OIL

Botanical source	: Coriandrum sativum
Appearance	: A colourless to pale yellow mobile liquid
Odour	: Typical of coriander
Density @ 20°C	: 0.863 – 0.870 g/ml
O.R. @ 20°C	: +8 to +12
R.I. @ 20°C	: 1.462 – 1.472
Acid value	: maximum 3
Linalol by GC	: minimum 65 %