



CERTIFICATE OF ANALYSIS

Product: CUMIN SEED OIL
Batch No: 4352403
Best Before End: February 2022

BOTANICAL NAME : CUMINUM CYMIMUM L

SOURCE : OBTAINED BY THE STEAM DISTILLATION OF DRIED RIPE FRUIT OF CUMINUM CYMIMUM.

APPEARANCE : PALE YELLOW TO BROWNISH YELLOW LIQUID.

ODOUR : EXTREMELY POWERFUL, DIFFUSIVE GREEN SPICY, SLIGHTLY FATTY, SOFT & MELLOW.

REF. INDEX : 1.494 TO 1.506 AT 20°C

SP. GRAVITY AT 25°/25°C : 0.905 TO 0.925

OPT. ROTATION : +2° TO +8°,

MAIN CONSITUENTS : CUMINIC ALDEHYDE 22 % & DYEHYDRO CUMINA ALDEHYDE & MONOTERPENES.

SOLUBILITY : SOLUBLE IN ALCOHOL & OTHER ORGANICS SOLVENTS.

USES : FLAVOUR AND FRAGRANCE INDUSTRY, PERFUMERY COMPOUND, SOAPS.CANDLES

DECLARATION OF ALLERGENS

PRODUCT	Cumin Seed Oil
----------------	-----------------------

MATERIAL	CAS NUMBER	TOTAL ALLERGEN INCLUSION LEVEL (%)
AMYL CINNAMAL	122-40-7	-
BENZYL ALCOHOL	100-51-6	-
CINNAMYL ALCOHOL	104-54-1	-
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	-
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	-
BENZYL BENZOATE	120-51-4	-
CITRONELLOL	106-22-9	-
HEXYL CINNAMAL	101-86-0	-
LIMONENE	5989-27-5	-
METHYL 2-OCTYNOATE	111-12-6	-
ALPHA-ISOMETHYL IONONE	127-51-5	-
EVERNIA PRUNASTRI EXTRACT	90028-68-5	-
EVERNIA FURFURACEA EXTRACT	90028-67-4	-
		NO ALLERGEN

01.08.2019

BREIF MANUFACTURING PROGRESS FLOW CHART

1

Manufacturing process of Cumin Seed Essential Oils

- harvesting Seed →
- Collecting of Seed , →
- Drying the Seed in sun light →
- Crushing the Seed →
- Filling of crushed Seed in Vessel →
- Steam distillation process start →
- Collection of oil from separator Tank →
- Filtration of oil and dirty part. →
- Storage of Oils in drums →
- Testing of lot sample for quality →
- Send to warehouse for sale .



GMO Statement

PRODUCT NAME: CUMIN SEED

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

Vegetarian & Vegan Suitability Statement

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.

20/02/20



Product Name	CUMIN SEEDL ESSENTIAL OIL		
INCI Name	CUMINUM CYMIMUM L		
Revision No	02	Date	04.10.2016

We certify that the above compound is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA 48TH Amendment), provided it is used in the following class(es) at a maximum concentration level of :

IFRA Class(es) (See Annex for Details)	Max Level of Use (%)
Class 1(*)	No Limit(*)
Class 2	No Limit
Class 3A	No Limit
Class 3B	No Limit
Class 3C	No Limit
Class 3D	No Limit
Class 4A	No Limit
Class 4B	No Limit
Class 4C	No Limit
Class 4D	No Limit
Class 5	No Limit
Class 6(*)	No Limit(*)
Class 7A	No Limit
Class 7B	No Limit
Class 8A	No Limit
Class 8B	No Limit
Class 9A	No Limit
Class 9B	No Limit
Class 9C	No Limit
Class 10A	No Limit
Class 10B	No Limit
Class 11	No Limit

(*) IFRA would recommend that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings.

For other kinds of application or use at higher concentration levels, a new safety evaluation may be needed, please contact **MADAR Corporation Ltd.**

SAFETY DATA SHEET

CUMIN SEED ESSENTIAL OIL

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

1.1. Product identifier

Product name : CUMIN SEED ESSENTIAL OIL

CAS number : 8014-13-9
Custom Tariff Code : 3301.29.4100
Ec no. : 283-881-6

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

Identified uses Concentrated material for manufacturing purposes only.

1.3. Details of the supplier of the safety data sheet

Supplier MADAR Corporation Limited
19-20 Sandheath Industrial Estate
Fordingbridge
Hampshire
SP6 1PA

sales@madarcorporation.co.uk

1.4. Emergency telephone number

Emergency telephone + 91 98110 72654 Office Hours are 09:00 - 17:30 weekdays only

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification :(EC 1272/2008)
Physical hazards :Not Classified
Health hazards :Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304
Environmental hazards :Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram

Signal word : Danger



Hazard statements	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 Do NOT induce vomiting.
Constituent Break Down	: CUMINIC ALDEHYDE 22-35% cuminic alcohol (16.92%), γ -terpinene (11.14%), safranal (10.87%), p-cymene (9.85%) and β -pinene (7.75%) were the major components
Supplementary precautionary Statements	: P261 Avoid breathing vapour/ spray P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3 : Composition/information on ingredients

3.2. Mixtures

18.0 – 32.0% CUMINIC ALDEHYDE (CAS No. 122-03-2) EINECS Number:283-881-6

ATD 5,ATO 4-H302,H313; Classification (EC 1272/2008)

Eye Irrit. 2, H319, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410 M Chronic = 1

16.92% cuminic alcohol CAS: 536-60-7. EC Number: 208-640-4

Eye Irrit. 2, H319, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410 M Chronic = 1

5.0 – 7.0% Beta-Pinene CAS: 127-91-3, EC: 204-872-5

Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317

p-cymene (9.85%) Cas No. 99-87-6 EC / List no.: 202-796-7

Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317

11.14% γ -terpinene CAS: 99-85-4. EC Number: 202-794-6

10.87% safranal CAS-No.: 116-26-7. EC-No.: 204-133-7

Eye Irrit. 2, H319, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410 M Chronic = 1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	:Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information	:Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. See Section 11 for additional information on health hazards.
---------------------	---

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	:No specific recommendations.
----------------------	-------------------------------

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:Extinguish with the following media: Foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	:Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards	:Toxic gases or vapours.
------------------	--------------------------

5.3. Advice for firefighters

Protective actions during Firefighting	:Containers close to fire should be removed or cooled with water.
Special protective equipment for firefighters	:Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions :Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage.

6.2. Environmental precautions

Environmental precautions :Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up :Keep combustible materials away from spillage. Eliminate all sources of ignition. Provide adequate ventilation. Contain and absorb spillage with sand, earth or other non-combustible material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions :Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene : Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments :No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate ventilation.

Eye/face protection :Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn:
Chemical splash goggles or face shield.

Hand protection :Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection :Wear appropriate clothing to prevent any possibility of skin contact.
Wear apron or protective clothing in case of contact.

<u>Hygiene measures</u>	:No specific hygiene procedures recommended but good personal hygiene practices Should always be observed when working with chemical products.
<u>Respiratory protection</u>	:No specific recommendations. Respiratory protection may be required if excessive Airborne contamination occurs.
Environmental exposure controls	:Residues and empty containers should be taken care of as hazardous waste according To local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow to Dark brown .
Odour	Strong & somewhat disagreeable odor

Flash point	: 53°C
Relative density	:~ 0.900 - 0.930 @20°C

9.2. Other information

Refractive index	: ~ 1.497 - 1.506 @20°C
------------------	-------------------------

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

<u>Stability</u>	:Stable at normal ambient temperatures.
------------------	---

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	:Will not polymerise.
------------------------------------	-----------------------

10.4. Conditions to avoid

<u>Conditions to avoid</u>	:Avoid heat, flames and other sources of ignition.
----------------------------	--

10.5. Incompatible materials

<u>Materials to avoid</u>	:Strong oxidising agents. Strong acids. Strong alkalis.
---------------------------	---

10.6. Hazardous decomposition products

<u>Hazardous decomposition products:</u>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
--	---

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	:65,000.0
Ingestion	:May be fatal if swallowed and enters airways.
Skin contact	: Irritating to skin. May cause sensitisation by skin contact.
<u>Eye contact</u>	:Causes serious eye irritation.



Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) : 1,300.0

Species :Rat

ATE oral (mg/kg) :1,300.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀mg/kg) :2,500.0

Species :Rabbit

ATE dermal (mg/kg) :2,500.0

SECTION 12: Ecological Information

Ecotoxicity : Harmful to aquatic life with long lasting effects.

12.1. Toxicity

LIMONENE

Acute aquatic toxicity

LE(C)₅₀ :0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) :1

Chronic aquatic toxicity

M factor (Chronic) :1

12.2. Persistence and degradability

Persistence and degradability :The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential :The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility :The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment :This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods :Dispose of waste product or used containers in accordance with local regulations

SECTION 14: Transport information

General :The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number : Not applicable.

14.2. UN proper shipping name :Not applicable.

14.3. Transport hazard class(es) :No transport warning sign required.

14.4. Packing group :Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant :No.

14.6. Special precautions for user :Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :Not applicable.

SECTION 15: Regulatory information

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

EU legislation :Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16December 2008 on classification, labelling and packaging of substances and mixtures (As amended).

:Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18December 2006 concerning the Registration, Evaluation, Authorisation and Restriction Of Chemicals (REACH) (as amended).

Guidance :Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Key literature references and sources for data : European Chemicals Agency, <http://echa.europa.eu/>
Issued by Regulatory Manager

Revision 2

Hazard statements in full :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.
:H319 Causes serious eye irritation.
: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.
:H412 Harmful to aquatic life with long lasting effects.

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.

QUALITY CONTROL DEPARTMENT
SPECIFICATION SHEET

Product : CUMIN SEED OIL

BOTANICAL NAME : CUMINUM CYMIMUM L

SOURCE : OBTAINED BY THE STEAM DISTILLATION OF DRIED
RIPE FRUIT OF CUMINUM CYMIMUM.

APPEARANCE : PALE YELLOW TO BROWNISH YELLOW LIQUID.

ODOUR : EXTREMELY POWERFUL, DIFFUSIVE GREEN SPICY,
SLIGHTLY FATTY, SOFT & MELLOW.

REF. INDEX : 1.494 TO 1.506 AT 20°C

SP. GRAVITY AT 25°/25°C : 0.905 TO 0.925

OPT. ROTATION : +2° TO +8°,

CUSTOMS TERRIF NO. : 3301.29.00.00

COUNTRY OF ORIGIN : INDIA

IFRA Not restricted by IFRA

MAIN CONSITUENTS : CUMINIC ALDEHYDE 22-35% & DYEHYDRO CUMINA
ALDEHYDE & MONOTERPENES.

SOLUBILITY : SOLUBLE IN ALCOHOL & OTHER ORGANICS SOLVENTS.

USES : PERFUMERY COMPOUNDS, FRAGRANCES, PICKLES,
MEAT, SAUCES, SEASONINGS & FLAVORS ETC.