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	FR1012 CORIANDER SEED OIL	

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1	Product Identifiers	Product Code FR1012 Product Name CORIANDER SEED OIL CAS No. 8008-52-4 Index No. N/A CLP Reference No. 02-2119666371-38-0000 REACH Pre-Registration No. -- EC No. 283-880-0 FEMA No. 2334
1.2	Use	Use in Flavour / Food Application.
1.3	Company / Undertaking Identification	Ultra International B.V. Malledijk 3H, 3208 LA Spijkennisse, (Loods 12-15), Netherlands Tel : +3161 8431850 Fax : +91-120 - 437 4000 E-mail : ultraintl.nl@gmail.com * www.ultrainternational.com +91-9810008844
1.4	Emergency Telephone	

2. HAZARD IDENTIFICATION

2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS classification]

HAZARD CATEGORY

- Flammable Liquid 4
- Acute Toxicity Oral 5
- Aspiration Hazard 1
- Skin Corrosion/Irritation 2
- Skin Sensitization 1
- Eye damage/irritation 2A
- Aquatic Acute 2
- Aquatic Chronic 2

HAZARD STATEMENTS

- H227 COMBUSTIBLE LIQUID
- H303 MAY BE 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
- H401 TOXIC TO AQUATIC LIFE
- H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R38	IRRITATING TO SKIN
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

2.2 Label Elements

Label elements according to Regulation (EC) No. 1272/2008 (Substance)/Directive 67/548/EEC

Hazard Pictogram / Symbol:



GHS 07



GHS 08



GHS 09

Signal word / Indication(s) of danger:

Danger

Hazard Pictogram / Symbol:



N Dangerous for the environment



Xn Harmful

Hazard Statements

- H227 COMBUSTIBLE LIQUID
- H303 MAY BE 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
- H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Precautionary Statements

- P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
- P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
- P273 AVOID RELEASE TO THE ENVIRONMENT



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P280	WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
P301+310	IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN
P302+352	IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
P305+351+338	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 VOMITTING
P333+313	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P337+313	IF EYE IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P405	STORE LOCKED UP
P501	DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION).

3. COMPOSITION / INFORMATION OF INGREDIENTS

Substance Name	: CORIANDER SEED OIL
Product Description	: This product is a 100% natural flavour ingredient
Hazardous Components	: LINALOOL (CAS-N° 78-70-6); Xi; R38 ALPHA-PINENE (CAS N° 80-56-8); Xn ,N ;R10,R43,R50/53,R65 CAMPHOR (CAS N° 76-22-2); Xn; R11,R20,R68/22 LIMONENE (CAS N° 7705-14-8); Xi ,N; R10,R38,R43,R50/53 GERANIOL (CAS N° 106-24-1); Xi; R38,R41,R43
CAS No.	: 8008-52-4
EC No.	: 283-880-0
Botanical Name	: <i>Coriandrum sativum</i>
Stabilizers	: N/A
Synonyms	: CORIANDER SEED OIL
Index No.	: N/A
CLP Reference No.	: 02-2119666371-38-0000
REACH Pre-Registration No.	: --

4. FIRST AID MEASURES

- 4.1 Description of First Aid Measures**
- | | |
|---------------------|---|
| Eye Contact | : Remove contact lenses if worn. Flush immediately with plenty of water. |
| Skin Contact | : Remove contaminated clothing. Wash affected area with mild soap and water. |
| Inhalation | : Remove affected person to fresh air. If discomfort persists, consult physician. |
| Swallowing | : Seek immediate medical care. |
- 4.2 Indication of any immediate medical attention and special treatment method**
- IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician.
- IF ON SKIN (or hair): Remove /take off immediately all contaminated clothing. Rinse skin with water /shower.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media**
- | | |
|--------------|--|
| - Suitable | : Carbon Dioxide; Dry Chemical; Universal Type Foam. |
| - Unsuitable | : Water spray; others not established. |
- 5.2 Special hazards arising from substance**
- Combustible liquid Possibility of development of hazardous gases or vapors in event of fire Following may develop: CO and CO2
- 5.3 Advice for fire fighters**
- Do not stay in dangerous zone without self protective clothing and breathing apparatus Spray extinguishing media directly into base of fire Cool containers exposed to flame with water Prevent fire fighting water entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, protective equipment and emergency procedures**
- Wear personal protective clothing. Keep away unprotected individuals. Eliminate source of ignition. Keep area well ventilated and isolate the spill.
- 6.2 Environmental precautions**
- Prevent entry into drains, ground/surface water or sewerage system.
- 6.3 Methods and material for containment and cleaning up**
- Pick up with absorbents material (Sand) or with pump for large spills.
- 6.4 Reference to other sections**
- Refer to Section 7, 8 & 13



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CORIANDER SEED OIL

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Measures to prevent fire

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Use explosion proof electrical/ ventilating/lighting/equipment etc.

Measures to prevent aerosols and dust generation

Ensure good ventilation at workplaces

Measures to protect the environment

Prevent entry into drains, ground/surface water or sewerage system.

General Occupational hygiene

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe use, including any incompatibilities

Information on storage conditions

Should be stored in cool, dark, dry, well ventilated places in full, tightly sealed containers protected from light & source of ignition

Information on packing materials

Should be packed in Aluminium, HDPE Food Grade Cans, MS Coated Drums, and GI Drums, Avoid long contact with Iron

Requirements for storage rooms and vessels

Should be stored in suitable containers (lines inside) e.g. MS Coated Drums, GI Drums etc. No special requirement for storage rooms.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

8.1 Appropriate engineering controls

Engineering controls should be used as the primary means to control exposures

8.2 Personal protective equipments

Skin protection



Safety gloves

Eye protection



tight safety goggles

Body protection



Protective clothing

Respiratory protection



Dust mask

8.3 Environmental exposure controls

Prevent entry into drains, ground/surface water or sewerage system.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

-physical state
-colour

Liquid
Colorless to Slightly Yellow
Characteristic

Odour

Odour Threshold

Medium

pH

Neutral

Melting Point °C

N/A

Boiling Point °C

Not estimated

Flash Point (Closed Cup) °C

66 °C

Optical Rotation

+8° to +15°

Vapour Density

Not estimated

Specific Gravity /Relative Density

0.865 – 0.875 @ 20°C

Refractive Index

1.460 – 1.470 @ 20°C

Partition Coefficient

Not estimated

Surface tension

Not estimated

Solubility

-Water

Insoluble

-Alcohol

1:3 in 70% alcohol

Viscosity

Not estimated



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CORIANDER SEED OIL

Explosive Limits

-Lower Explosion Limit	N/A
-Upper Explosion Limit	N/A
Auto ignition Temperature	N/A
Flammability	Combustible
Granulometry	N/A
Oxidising Properties	N/A

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive, stable at room temperature.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Reactions with strong oxidizers

10.4 Conditions to avoid

No decomposition if stored and handled properly

10.5 Incompatible materials

Avoid strong acids strong bases and all oxidising agents

10.6 Hazardous decomposition products

No dangerous decomposition products expected by intended use

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity oral (LD50)	4.13 g/kg bw (Rat)
11.2 Acute toxicity inhalation	Not determined
11.3 Acute toxicity dermal (LD50)	>5 gm/kg bw (Rabbit)
11.4 Skin Irritation/Corrosion	Not determined
11.5 Respiratory sensitization	Not determined
11.6 Skin sensitization	Not determined
11.7 CMR Effects	
Carcinogenicity	No
Mutagenicity	No
Toxic to reproduction	No
11.8 Eye Irritation / Corrosion	Not determined
11.9 Exposure limits	There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	
PNEC Oral	: Not estimated
NOAEL	: Not estimated
EC50 (48hrs)	: Not estimated
LC50 (96hrs)	: Not estimated
12.2 Persistence and degradability	: Not estimated
12.3 Mobility in Soil	: Not estimated
12.4 Results of PBT and vPvB assessment	: No

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Product/packaging disposal

Handle in accordance with official provisions

Waste treatment options

Recycling is preferred to disposal or burning


Waste code /Waste designations according to EWC/AVV

15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

13.2 Recommendations

Empty contaminated packing thoroughly as they may be recycled

Moistened solids to be disposed off adhering to necessary technical regulations after consulting concerned authorities

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14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/RID/GGVSE)

UN Number 3082
DG Class 9
Packing Group III
Proper Shipping Name Environmentally hazardous Substance, liquid, n.o.s.(Linalool)
Classification Code 3Z
Hazard Labels



14.2 Sea Transport (IMDG-Code/GGVSee)

UN Number 3082
DG Class 9
Packing Group III
Proper Shipping Name Environmentally hazardous Substance, liquid, n.o.s.(Linalool)
Marine Pollutant Yes
Hazard Labels



14.3 Air Transport (ICAO-IAT/DGR)

UN Number 3082
DG Class 9
Packing Group III
Proper Shipping Name Environmentally hazardous Substance, liquid, n.o.s.(Linalool)
Hazard Labels



14.4 Special precautions for users

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse Prevent entry into drains, ground/surface water or sewerage system.

14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

N/A

14.6 Other Information

Custom Tariff Code : 3301 29 6000
EmS Code : -

15. REGULATORY INFORMATION

EU regulations:

The product has been classified and labelled according to criteria provided in Directive 67/548/EEC and 1272/2008/EC, and following the recommendations of EFFA (European Flavor and Fragrance Association).

Other Regulations: German Regulation (VwVws)

Water Hazard Class : WGK 2


16. OTHER INFORMATION

16.1 Changes to previous version

Changes applicable according to regulation (EC) No 1907/2006 (REACH)

16.2 Abbreviations and acronyms

GHS : Globally Harmonized System of Classification and labeling of Chemicals
CAS : Chemical abstract Service (division of American Chemical society)
CLP : Classification, Labelling and Packaging
LD50 : Lethal concentration, 50 percent
EC50 : Effective concentration, 50 percent
PNEC : Predicted No Effect Concentration
NOAEL : No Observed Adverse Effect Levels
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
RID : Regulations Concerning the International Transport of Dangerous Goods by Rail

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IMDG	:	International Maritime Code for Dangerous Goods
IATA	:	International Air Transport Association
IATA-DGR	:	Dangerous Goods Regulations by the International Air Transport Association (IATA)
ICAO	:	International Civil Aviation Organization

16.4 Wording of relevant hazard statement and/or precautionary statements referred to in section 2 to 15

Hazard Codes

N	DANGEROUS FOR THE ENVIRONMENT
Xn	HARMFUL

Risk Phrases

R38	IRRITATING TO SKIN
R 43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R 65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
R 51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Safety Phrases

S24	AVOID CONTACT WITH SKIN
S37	WEAR SUITABLE GLOVES
S61	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET
S62	IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Hazard Statements

H227	COMBUSTIBLE LIQUID
H303	MAY BE HARMFUL IF SWALLOWED
H304	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H315	CAUSES SKIN IRRITATION
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H401	TOXIC TO AQUATIC LIFE
H411	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Precautionary Statements

P210	KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
P261	AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
P273	AVOID RELEASE TO THE ENVIRONMENT
P280	WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
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P302+352	IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
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P337+313	IF EYE IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P405	STORE LOCKED UP
P501	DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION).

16.5 Training advice appropriate for workers

N/A

16.6 Quality Declaration

The information contained herein is based on the present state of our knowledge. It characterizes the product with regards to the appropriate safety precaution. It does not represent a guarantee of the properties of the product.