	<b>SAFETY DATA SHEET</b> (According to Regulation (EC) No. 1907/2006 (REACH))	Version : SDS/2010/1 Date: 19/08/2013 Revision : Date: Page No. : Page 1 of 6
	1040                      NUTMEG OIL	

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

1.1	<b>Product Identifiers</b>	<b>Product Code</b> 1040 <b>Product Name</b> NUTMEG OIL <b>CAS No.</b> 8008-45-5 <b>Index No.</b> N/A <b>CLP Reference No.</b> N/A <b>REACH Registration No.</b> --- <b>EC No.</b> 282-013-3 <b>FEMA No.</b> 2793
1.2	<b>Use</b>	Use in Flavour / Food Application.
1.3	<b>Company / Undertaking Identification</b>	<b>Ultra International B.V.</b> Malledijk 3H, 3208 LA Spijkennisse, (Loods 12-15), Netherlands Tel : +3161 8431850 Fax : +91-120 - 437 4000 E-mail : <a href="mailto:ultraintl.nl@gmail.in">ultraintl.nl@gmail.in</a> * www.ultrainternational.com +91-9810008844
1.4	<b>Emergency Telephone</b>	

### 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 3
- Aspiration Hazard 1
- Skin Corrosion/Irritation 2
- Skin Sensitization 1
- Mutagen category 2
- Carcinogen category 1B
- Aquatic acute 1
- Aquatic Chronic 1

#### HAZARD STATEMENTS

- H226 FLAMMABLE LIQUID AND VAPOUR
- H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
- H315 CAUSES SKIN IRRITATION
- H317 MAY CAUSE AN ALLERGIC SKIN REACTION
- H341 SUSPECTED OF CAUSING GENETIC DEFECTS
- H350 MAY CAUSE CANCER
- H400 VERY TOXIC TO AQUATIC LIFE
- H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

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

R10	FLAMMABLE
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT
R45	MAY CAUSE CANCER
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
R68	POSSIBLE RISK OF IRREVERSIBLE EFFECTS
R50/53	VERY 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 02



GHS 07



GHS 08



GHS 09

#### Signal word / Indication(s) of danger:

Danger

#### Hazard Pictogram / Symbol:



T Toxic



Xn Harmful

#### Hazard Statements

- H226 FLAMMABLE LIQUID AND VAPOUR
- H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
- H317 MAY CAUSE AN ALLERGIC SKIN REACTION
- H341 SUSPECTED OF CAUSING GENETIC DEFECTS
- H350 MAY CAUSE CANCER
- H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS



# SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1  
Date: 19/08/2013  
Revision :  
Date:  
Page No. : Page 2 of 6

1040

NUTMEG OIL

## Precautionary Statements

P210	KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
P233	KEEP CONTAINER TIGHTLY CLOSED
P241	USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/.../EQUIPMENT
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
P301+310	IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN
P303+361+353	IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER
P331	DO NOT INDUCE VOMITTING
P333+313	IF SKIN 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	:	NUTMEG OIL
Product Description	:	This product is a 100% essential oil.
Hazardous Components	:	Alpha-pinene ((CAS N° 80-56-8); Xn, N; R10, R43, R50/53, R65 Limonene ((CAS N° 5989-27-5); Xi, N; R10, R38, R43, R50/53 Safrole (CAS No.94-59-7) T, R22, R45, R68
CAS No.	:	8008-45-5
EC No.	:	282-013-3
Botanical Name	:	<i>Myristica fragrans</i> Houtt
Stabilizers	:	N/A
Synonyms	:	NUTMEG OIL Nutmeg kernel oil
Index No.	:	N/A
CLP Reference No.	:	N/A
REACH 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



## SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1  
Date: 19/08/2013  
Revision :  
Date:  
Page No. : Page 3 of 6

1040

NUTMEG 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

Liquid

-colour

Colorless to pale yellow

#### Odour

Characteristic

#### Odour Threshold

Medium

#### pH

N/A

#### Melting Point °C

N/A

#### Boiling Point °C

167.7°C

#### Flash Point (Closed Cup) °C

45 °C

#### Vapour Pressure

0.508 – 981 Pa

#### Vapour Density

Not estimated

#### Specific Gravity /Relative Density

0.885 – 0.905 @20°C

#### Refractive Index

1.475 – 1.485 @20°C

#### Optical Rotation

+8° to +18°

#### Surface tension

59.4mN/m @ 19.6°C ± 0.1°C

#### Solubility

-Water

Insoluble

-Alcohol

Soluble in not more than a 1:2.5 (v/v) in 85% alcohol

#### Viscosity

Not estimated

#### Partition Coefficient

Not estimated



# SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006 (REACH))

Version : SDS/2010/1  
Date: 19/08/2013  
Revision :  
Date:  
Page No. : Page 4 of 6

1040

NUTMEG OIL

## Explosive Limits

-Lower Explosion Limit	N/A
-Upper Explosion Limit	N/A
Auto ignition Temperature	N/A
Flammability	Flammable
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)	2620 mg/kg bw (Rat)
11.2 Acute toxicity inhalation	>4.9 mg/L (Rat)
11.3 Acute toxicity dermal (LD50)	>10 ml/Kg bw (Rabbit)
11.4 Skin Irritation/Corrosion	Not determined
11.5 Respiratory sensitization	Not determined
11.6 Skin sensitization	N/A
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	: N/A
NOAEL	: 0.32 mg/L
EC50 (48hrs)	: 0.52 mg/L
LC50 (96hrs)	: N/A
12.2 Persistence and degradability	: Readily biodegradable in water
12.3 Mobility in Soil	: Not estimated
12.4 Results of PBT and vPvB assessment	
	N/A

## 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

	<b>SAFETY DATA SHEET</b> (According to Regulation (EC) No. 1907/2006 (REACH))	Version : SDS/2010/1 Date: 19/08/2013 Revision : Date: Page No. : Page 5 of 6
	<b>1040</b> <b>NUTMEG OIL</b>	

**14. TRANSPORT INFORMATION**

**14.1 Land Transport (ADR/RID/GGVSE)**

**UN Number**                      1197  
**DG Class**                              3  
**Packing Group**                      III  
**Proper Shipping Name**              Extracts, flavoring, liquid (N.O.S)  
**Classification Code**                3Y  
**Hazard Labels**



**14.2 Sea Transport (IMDG-Code/GGVSee)**

**UN Number**                      1197  
**DG Class**                              3  
**Packing Group**                      III  
**Proper Shipping Name**              Extracts, flavoring, liquid (N.O.S)  
**Marine Pollutant**                    Yes  
**Hazard Labels**



**14.3 Air Transport (ICAO-IAT/DGR)**

**UN Number**                      1197  
**DG Class**                              3  
**Packing Group**                      III  
**Proper Shipping Name**              Extracts, flavoring, liquid (N.O.S)  
**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 3200  
**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

	<b>SAFETY DATA SHEET</b> (According to Regulation (EC) No. 1907/2006 (REACH))	<b>Version :</b> SDS/2010/1 <b>Date:</b> 19/08/2013 <b>Revision :</b> <b>Date:</b> <b>Page No. :</b> Page 6 of 6
	<b>1040</b> <b>NUTMEG OIL</b>	

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

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

**Hazard Codes**

<b>T</b>	TOXIC
<b>Xn</b>	HARMFUL

**Risk Phrases**

<b>R10</b>	FLAMMABLE
<b>R43</b>	MAY CAUSE SENSITIZATION BY SKIN CONTACT
<b>R45</b>	MAY CAUSE CANCER
<b>R65</b>	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
<b>R68</b>	POSSIBLE RISK OF IRREVERSIBLE EFFECTS
<b>R50/53</b>	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

**Safety Phrases**

<b>S24</b>	AVOID CONTACT WITH SKIN
<b>S37</b>	WEAR SUITABLE GLOVES
<b>S53</b>	AVOID EXPOSURE OBTAIN SPECIAL INSTRUCTIONS BEFORE USE
<b>S61</b>	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET
<b>S62</b>	IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

**Hazard Statements**

<b>H226</b>	FLAMMABLE LIQUID AND VAPOUR
<b>H304</b>	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
<b>H315</b>	CAUSES SKIN IRRITATION
<b>H317</b>	MAY CAUSE AN ALLERGIC SKIN REACTION
<b>H341</b>	SUSPECTED OF CAUSING GENETIC DEFECTS
<b>H350</b>	MAY CAUSE CANCER
<b>H400</b>	VERY TOXIC TO AQUATIC LIFE
<b>H410</b>	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

**Precautionary Statements**

<b>P210</b>	KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
<b>P233</b>	KEEP CONTAINER TIGHTLY CLOSED
<b>P241</b>	USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/.../EQUIPMENT
<b>P261</b>	AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
<b>P273</b>	AVOID RELEASE TO THE ENVIRONMENT
<b>P280</b>	WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
<b>P301+310</b>	IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN
<b>P303+361+353</b>	IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER
<b>P331</b>	DO NOT INDUCE VOMITTING
<b>P333+313</b>	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
<b>P405</b>	STORE LOCKED UP
<b>P501</b>	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.