

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

- **Product Identifiers**

<b>Product Code:</b> RM0005	<b>CAS No. (TSCA)</b> : 8008-45-5
<b>Product Name:</b> NUTMEG OIL	<b>CAS No. (EINECS)</b> : 84082-68-8
<b>Botanical/Chemical Name:</b> Myristica fragrans Hoult.	<b>EINEC</b> : 282-013-3
<b>Molecular weight:</b> N/A	<b>FEMA No.</b> : 2793
<b>Molecular Formula:</b> N/A	<b>FDA No</b> : 182.20

**CLP Reference number:** --  
**Reach Registration number:** Registered  
**Reach Pre Registration number:** --  
**Application of the substance / preparation:** Food/Flavour, Fragrance application
- **Manufacturer / Supplier Details:**  
**Ultra International B.V.**  
**Malledijk 3H, 3208 LA Spijkensisse, (Loods 12-15) Netherlands**  
**E-mail:ultra@ultranl.com**  
**www.ultranl.com**
- **Information in case of emergency:**  
**Mr. Prasenjit Mazumdar**  
**Ph.: +91 9810008844**  
**Email : ultra@ultraintl.com**

**2. HAZARD IDENTIFICATION**

- **Classification of the substance / preparation**  
**Classification according to Regulation (EC) No. 1272/2008**  
AH 1, ATO 5(2620), CAR 1B, EDI 2A, EH A2, EH C2, FL 3, MUT 2, SCI 2, SS 1-H304-303-350-319-226-341-315-317-411  
  
**Classification according to Directive 67/548/EEC or 1999/45/EC**  
T N R10-38-43-45-65-68-51/53
- **Label Elements**  
Label elements according to Regulation (EC) No. 1272/2008



Label elements according to Directive 67/548/EEC or 1999/45/EC



- **Classification system:**  
The classification is according to the latest editions of EU lists, and extended by company and literature data.
- **Additional Information:**  
See section 16 for the wordings of listed R-, S- phrases, H-statements and Hazard codes.

**3. COMPOSITION / INFORMATION OF INGREDIENTS**

- **Product Description:**  
Essential Oil; UVCB; Substance of biological origin with variable and partially unknown composition.
- **Hazard Impurities:** Not Applicable
- **Content of R65 classified products:** 79%
- **Dangerous components:**
  - GAMMA TERPINENE (CAS No 99-85-4) Xn, R10-65; Amount-3-8%
  - BETA-PINENE (CAS No 127-91-3) Xn Xi N, R10-43-50/53-65; Amount-11-19%
  - ALPHA-PINENE (CAS No 80-56-8) Xn Xi N, R10-43-50/53-65; Amount-15-30%
  - METHYL EUGENOL (CAS No 93-15-2) Xn N, R22-40-51/53-68; Amount-<1%

**4. FIRST AID MEASURES**

- **After Inhalation:**  
Shift affected person to fresh air and to be sure call for a doctor.  
In case of unconsciousness, place patient stably inside position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Remove contact lenses if worn. Rinse opened eye for several minutes under running water.
- **After swallowing:** Seek immediate medical attention.
- **General Information:**  
Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after the accident.

## 5. FIRE FIGHTING MEASURES

- **Extinguishing Media:**  
Carbon di oxide, powder or water spray, Fight larger fires with water spray or alcohol resistant foam. Do not use a direct water jet on burning material.
- **Special hazards arising from the substance/mixture**  
**Specific hazards** No data available  
**Precautions** Do not smoke. Do not expose to a naked flame.
- **Advice to the fire-fighters**
  - Do not stay in dangerous zone without self-protective clothing and breathing apparatus.
  - Spray extinguishing media directly into the base of fire.
  - Cool containers exposed to flame with water.
  - Prevent fire fighting water entering surface water/ground water.





## 6. ACCIDENTAL RELEASE MEASURES

- **Person-related safety precautions:**  
Wear protective equipment, keep unprotected persons away.  
Eliminate source of ignition, keep area well-ventilated and isolate the spill.
- **Environmental precautions**  
Prevent entry into drains, ground/surface water or sewerage system.  
Notify authorities if product enters sewers or public water.
- **Methods and materials for containment and clean up**
  - Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust etc.)
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
- **Reference to other sections**  
Refer to section 7, 8 & 13

## 7. HANDLING AND STORAGE

- **Handling:**  
**Technical** Close packing after use, Reproduce labelling if transfer in another container  
**Precaution** Avoid any useless exposure, keep away from food and drinks.  
Wash hands and any other zone exposed with soap and water before eating, drinking, to smoke and leaving.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent entry into drains, ground/surface water or sewerage system  
Wear protective clothings Take off contaminated clothing and wash before use.
- **Storage:**
  - Preserve only in containers of origin in a fresh place and broken down well.
  - Keep the containers closed out of their use.
  - Store away from foodstuff/oxidizing agent and incompatible materials
  - Store in cool, dry conditions in well-sealed receptacles
- **Specific end use(s):**  
No data available

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **Exposure controls**  
**Appropriate engineering controls**  
Engineering controls should be used as the primary means to control exposures  
**Personal protective equipments**
- | Skin protection   | Eye protection  | Body protection   | Respiratory protection  |
|---|---|---|---|
|  |  |  |  |
| Safety gloves   | Tight safety goggles  | Protective clothing   | Dust mask   |
- **Environmental exposure controls**  
Prevent entry into drains, ground/surface water or sewerage system.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- **General Information**
  - **Form** : Liquid
  - **Colour** : Colourless to pale yellow, clear liquid
  - **Odour** : Characteristic
  - **Odour Threshold** : N/A
- **Change in Condition**
  - **Melting Point °C** : N/A
  - **Boiling Point ° C** : N/A

➤	<b>Flash Point (Closed Cup) °C</b>	:	43°C
➤	<b>Specific Gravity/Relative Density</b>	:	0.883 - 0.923 @25°C
➤	<b>Refractive Index</b>	:	1.474 - 1.488 @20°C
➤	<b>Vapour Density</b>	:	N/A
➤	<b>Vapour Pressure</b>	:	N/A
➤	<b>Solubility:</b>		
	• <b>Water</b>	:	Insoluble
	• <b>Alcohol</b>	:	1:2.5 (v/v) in 85% alcohol
➤	<b>Flammability</b>	:	N/A
➤	<b>Auto Ignition Temperature</b>	:	N/A
➤	<b>Explosive Limits:</b>		
	• <b>Lower Explosion Limits</b>	:	N/A
	• <b>Upper Explosion Limits</b>	:	N/A
➤	<b>pH value</b>	:	N/A
➤	<b>Optical Rotation</b>	:	+8° to +30°
➤	<b>Surface Tension</b>	:	N/A
➤	<b>Partition Coefficient</b>	:	N/A
➤	<b>Granulometry</b>	:	N/A
➤	<b>Oxidising Properties</b>	:	N/A

### 10. STABILITY AND REACTIVITY

➤	<b>Reactivity</b>	Not reactive, stable at room temperature.
➤	<b>Chemical stability</b>	Stable
➤	<b>Possibility of hazardous reactions</b>	Reactions with strong oxidizers
➤	<b>Conditions to avoid</b>	No decomposition if stored and handled properly
➤	<b>Incompatible materials</b>	Avoid strong acids strong bases and all oxidising agents
➤	<b>Hazardous decomposition products</b>	No dangerous decomposition products expected by intended us

### 11. TOXICOLOGICAL INFORMATION

➤	<b>Toxicological Information Acute</b>	
	<b>Oral</b>	2620 mg/kg bw (rat)
	<b>Inhalation</b>	No data available
	<b>Skin</b>	>10 ml/kg bw (rabbit)
➤	<b>Skin Irritation/Corrosion</b>	No data available
➤	<b>Eye irritation/Corrosion</b>	No data available
➤	<b>Skin Sensitization</b>	No data available
➤	<b>Respiratory sensitization</b>	No data available
➤	<b>CMR Effects</b>	
	<b>Carcinogen</b>	No data available
	<b>Mutagen</b>	No data available
	<b>Reprotoxic</b>	No data available
➤	<b>Exposure Limits</b>	No data available

Note : There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established.

### 12. ECOLOGICAL INFORMATION

➤	<b>Toxicity</b>	
	<b>PNEC Oral</b>	No data available
	<b>EC50 (48hrs)</b>	>4.9 mg/L bw (rat)
	<b>LC50 (96hrs)</b>	No data available
➤	<b>Persistence and degradability</b>	Not Determined
➤	<b>Mobility in Soil</b>	Not Determined
➤	<b>Results of PBT and vPvB assessment</b>	No data available
➤	<b>Other adverse effects</b>	Not Determined

### 13. DISPOSAL CONSIDERATION

- **Waste treatment methods:**
- **Product/packaging disposal**  
Handle in accordance with official provisions
- **Waste treatment options**  
Recycling is preferred to disposal or burning
- **Disposal conditions**  
Dispose of in accordance with all federal, state and local environmental regulations.
- **Recommendations:**
- Empty contaminated packing thoroughly as they may be recycled
- Moistened solids to be dispose-off adhering to necessary technical regulations after consulting concerned authorities

**14. TRANSPORT INFORMATION**

- **Land Transport (ADR/RID/GGVSE)**
  - UN Number 1197
  - DG Class 3
  - Packing Group III
  - Proper Shipping Name Extracts, Flavouring, Liquid
  - Classification code 3Y
- **Sea Transport (IMDG-Code/GGVSE)**
  - UN Number 1197
  - DG Class 3
  - Packing Group III
  - Proper Shipping Name Extracts, Flavouring, Liquid
  - Marine Pollutant Yes
- **Air Transport (ICAO-TI/IATA-DGR)**
  - UN Number 1197
  - DG Class 3
  - Packing Group III
  - Proper Shipping Name Extracts, Flavouring, Liquid

➤ **ADR/IMDG/IATA Labels:**



- **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.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
N/A
- **Other Information**
  - Custom Tariff Code 3301.29.3200
  - EmS Code F-E, S-D

**15. REGULATORY INFORMATION**

- **EU regulations:**  
The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.
- **Water Hazard Class (Germany):** WGK 2
- **Chemical safety Assessment** No data available
- **Other Regulations**
  - EPA No
  - TSCA Yes
  - DSL Yes
  - Preposition 65 No

**16. OTHER INFORMATION**

- Abbreviations used:**
- EC European Commission
  - EU European Union
  - DG Dangerous Goods
  - CAS Chemical Abstract Service
  - EINECS European Inventory of Existing Commercial chemical Substances
  - GHS Globally Harmonized System
  - CMR Carcinogen, Mutagen, Reprotoxic
  - PNEC Predicted No Effect Concentration
  - EC50 Effective Concentration 50 percent
  - LC50 Lethal Concentration 50 percent
  - PBT Persistent Bioaccumulative and Toxic
  - vPvB Very Persistent Very Bioaccumulative
  - EWC European Waste Catalogue
  - EmS Emergency Medical Services
  - ADR Transport of Dangerous Goods by Road
  - RID International Carriage of Dangerous Goods by Rail
  - GGVSE German Regulation on the Transport of Dangerous Goods by Road and Rail
  - MDG International Maritime Dangerous Goods
  - ICAO-TI International Civil Aviation Organization-Technical Instructions
  - IATA-DGR International Air Transport Association-Dangerous Goods Regulation
  - WGK Wassergefährdungsklassen
  - EPA Environmental Protection Agency
  - TSCA Toxic Substance Control Act
  - DSL Dangerous Substance List

**Relevant R- and S- phrases**

## SAFETY DATA SHEET

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

Version : SDS/2013/02

NUTMEG OIL

Print Date : 18/2/2015

R10	FLAMMABLE.
R38	IRRITATING TO SKIN.
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.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S24	AVOID CONTACT WITH SKIN.
S45	IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY(SHOW THE LABEL WHERE POSSIBLE).
S53	AVOID EXPOSURE-OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
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.
S36/37	WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

➤ **Relevant H-, P- Statements and Hazard Codes**

H226	FLAMMABLE LIQUID AND VAPOUR
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
H341	SUSPECTED OF CAUSING GENETIC DEFECTS
H350	MAY CAUSE CANCER
H411	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
P210	KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES – NO SMOKING
P233	KEEP CONTAINER TIGHTLY CLOSED
P241	USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHT/...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
P331	DO NOT INDUCE VOMITING
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
P333+313	IF SKIN IRRITATION OR A RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P405	STORE LOCKED UP
P501	DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)
FL 3	FLAMMABLE LIQUID 3
ATO 5	ACUTE TOXICITY ORAL 5
SCI 2	SKIN IRRITANT 2
EDI 2A	EYE IRRITANT 2A
SS 1	SKIN SENSITISATION 1
AH 1	ASPIRATION HAZARD CATEGORY 1
MUT 2	MUTAGEN CATEGIRY 2
CAR 1B	CARCINOGEN CATEGORY 1B
EH A2	ACUTE AQUATIC TOXICITY 2
EH C2	CHRONIC AQUATIC TOXICITY 2

➤ **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.*