




01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING					
Product Name	Nutmeg Essential Oil				
Biological Definition	The volatile oil is obtained by the steam distillation of dried kennels of the ripe seeds of <i>Myristica fragrans</i> Houtt.				
INCI Name	Myristica fragrans kernel oil				
Botanical name	Myristica fragrans				
Country of Origin	Indonesia				
Product use	Domestic and Industrial				
Synonyms & Trade Names	Nux Moschata. Myristica officinalis (Linn.). Myristica aromata. Myristica				
Supplier	West Coast Aromatics, LLCs 2701 Conestoga Dr Unit# 106 Carson City NV 89706 Nevada, USA Tel:+1-775-387-3000				
Emergency phone number	24 hours emergency telephone number (CHEMTREC) : 800-424-9300				
Reach Registration Number <small>(According to EU Reg 1907/2006)</small>	N/A				
FEMA Number	2793	CAS EINECS	84082-68-8	CoE Number	296
CAS Number	8008-45-5	EC Number	282-013	EINECS Number	282-013-3
02. HAZARDS IDENTIFICATION					
Classification (1999/45)	T+N; R45-10-43-51/53-65-68, S24-37-53-61-62				
GHS: Classification (EC 1272/2008)	UN-GHS: FL 3, ATO 5(2600), AH 1, SCI 2, SS 1, CAR 1B, MUT 2, EH A2,C2 EU-CLP: FL 3, AH 1, SCI 2, SS 1, CAR 1B, MUT 2, EH A2,C2				
Labe in accordance with (EC) No1272/2008 Labe in accordance with (US) Labe in accordance with (CA)	 <p>GHS02 GHS07 GHS08 GHS09</p>				
Signal Word	Danger				
Contains	Pinenes, alpha-terpinene, gamma-terpinene, limonene, safrole, terpinen-4-ol				
Hazard Statements	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 H341 Suspected of causing genetic defects H350 May cause cancer H411 Very toxic to aquatic life with long-lasting effects				
Precautionary Statements	P301/310 IF SWALLOWED immediately call a POISON CENTRE/doctor/ P331 Do NOT induce vomiting P262 Do not get in eyes, on skin or on clothing P280 Wear protective gloves/protective clothing/eye protection/face protection P201 Obtain special instructions before use P281 Use personal protection equipment as required P273 Avoid release to the environment P305/351/ 338 Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing				
Supplementary Precautionary Statements	P391 Collect spillage P405 Store locked up				
PBT or vPvB according to Annex XIII	No additional data available.				
Adverse physio-chemical properties	Combustible but will not self-ignite				




Adverse effects on human health

See hazard statement section above. Contra-indicated uses: Psychotropic effects reported. Nutmeg oil may be a MAO inhibitor from myristicin content, and severe reactions to pethidine have been noted. Reynolds JEF (1993) *Martindale: The extra Pharmacopeia* (Pharmaceutical Press)..

03. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT CONTRIBUTING TO THE HAZARD	CONTENT
Pinènes (CAS : 80-56-8(alpha)+127-91-3(beta)) 1999/45/CE : N;XI;XN;R10;R38;R43;R50/53;R65;S24;S36/37;S62 GHS : AH 1, ATO 5 (3,500), EH-A 1, EH-C 1, FL 3, SCI 2, SS 1	~ 35 %
Terpinen-1-ol 4 (CAS : 562-74-3) 1999/45/CE : Xn;R22;R38;S36/37 GHS : ATD 5 (2,500), ATO 4 (1,300), EDI 2A, EH-A 3, FL 4, SCI 2	~ 5 %
Gamma terpinène (CAS : 99-85-4) 1999/45/CE : Xn;R10;R65;S62 GHS : AH 1, ATO 5 (3,850), FL 3, SCI 3	~ 4 %
Limonène (CAS : 138-86-3) 1999/45/CE : N;XN;R10;R38;R43;R50/53;R65;S02;S24;S37;S60;S61;S62 GHS : AH 1, EH-A 1, EH-C 1, FL 3, SCI 2, SS 1	~ 4 %
Alpha terpinène (CAS : 99-86-5) 1999/45/CE : N;Xn;R10;R22;R51/53;R65;S61;S62 GHS : AH 1, ATO 4 (1,680), EH-A 2, EH-C 2, FL 3, SCI 3	~ 3 %
Cinéol-1,8 (CAS : 470-82-6) 1999/45/CE : R10; GHS : ATO 5 (2,500), FL 3, SCI 3	~ 2 %
Myrcene (CAS : 123-35-3) 1999/45/CE : XN;R10;R38;R65;S62 GHS : AH 1, EDI 2A, FL 3, SCI 2	~ 2 %
Isoeugenol (CAS : 97-54-1) 1999/45/CE : Xn;R21/22;R36/38;R43;S24/25;S26;S36/37 GHS : ATD 4 (1,900), ATO 4 (1,500), EDI 2A, EH-A 2, SCI 2, SS 1	~ 1 %
Delta 3 carène (CAS : 13466-78-9) 1999/45/CE : N;XI;XN;R10;R38;R43;R50/53;R65;S24;S36/37;S62 GHS : AH 1, ATO 5 (4,800), EH-A 1, EH-C 1, FL 3, SCI 2, SS 1	~ 1 %
alpha terpinéol (CAS : 98-55-5) 1999/45/CE : Xi;R36/38;S26 GHS : ATO 5 (4,300), EDI 2A, EH-A 2, FL 4, SCI 2	~ 1 %
Terpinolene (CAS : 586-62-9) 1999/45/CE : N;Xn;R10;R43;R50/53;R65;S24;S37;S57;S60;S61;S62 GHS : AH 1, ATO 5 (3,850), EH-A 1, EH-C 1, FL 4, SCI 3, SS 1	~ 1 %
Para cymène (CAS : 99-87-6) 1999/45/CE : N;Xn;R10;R51/53;R65;S61;S62 GHS : AH 1, ATO 5 (4,750), EH-A 2, EH-C 2, FL 3, SCI 3	~ 1 %
Methyl eugenol (CAS : 93-15-2) 1999/45/CE : N;Xn;R22;R40;R51/53;R68;S36;S61 GHS : ATO 4 (810), CAR 2, EH-A 2, MUT 2	<0.2%
Safrole (CAS : 94-59-7) 1999/45/CE : T;R22;R45;R68;S45;S53 GHS : ATO 4 (1,950), CAR 1B, MUT 2	<0.1%





04. FIRST AID MEASURES	
General Information	See categories below
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.
05. FIRE-FIGHTING MEASURES	
Extinguishing Media	Use CO ₂ , Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
Special Fire Fighting Procedures	Wear protective clothing. Avoid inhalation of vapors. Use breathing apparatus with independent air supply
Specific Hazards	In case of fire formation of dangerous gases possible.
Protective Measures in Fire	Closed containers may build up pressure when exposed to heat and should be cooled with water spray
06. ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes
Environmental Precautions	Do not discharge directly into drains or soil. Keep away from surface and ground water
Spill Clean Up Methods	Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.
07. HANDLING AND STORAGE	
Usage Precautions	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
Storage Precautions	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
08. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Protective Equipment	 <p>Goggles Gloves Respiratory protection</p>
Engineering Measures	Ensure good ventilation of working area.
Respiratory Equipment	As required. Avoid breathing product vapor.
Hand Protection	Avoid all skin contact. Use chemically resistant gloves if required.
Eye Protection	Use safety glasses.
Other Protection	As required
Hygiene Measures	Wash hands with soap & water after handling




09. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Mobile liquid
Color	Pale yellow to clear
Odor	Characteristic of nutmeg
Specific Gravity	0.880 to 0.910 @ 25°C
Flash Point (°C)	109.00 °F. TCC (42.78 °C.)
Refractive Index	1.474 to 1.488 @ 20°C
Melting Point (°C)	Not available
Boiling Point (°C)	165 @ 760 mm Hg
Vapor Pressure	Data not available
Solubility in Water@20°C	Insoluble
Optical Rotation	+8.00 to +30.00
Auto ignition temperature (°C)	Data not available
10. STABILITY AND REACTIVITY	
Stability	It presents no significant reactivity hazards, by itself or in contact with water
Conditions to Avoid	Avoid storage temperatures above 25°C
Material to Avoid	Avoid contact with strong acids, alkalis and oxidizing agents.
Hazardous Decomposition Products	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.
11. TOXOLOGICAL INFORMATION	
Acute Toxicity	Acute oral toxicity (Category 5 under EC 1272/2008): LD50 orl-rat: 2.62g/kg (NIOSH 1975). Psychotropic effects with sufficient dosage. Large does may result in death.
Skin corrosion / irritation	Acute Dermal toxicity: LD50 skn-rbt >10000.00 mg/kg FCT 14, 631 (1976)
Serious eye damage / irritation	Non-irritant to human skin at 2%: FCT (1976) 14, 631 (Binder p596). Irritation skn-rbt 500.00
Respiratory or skin sensitization	mg/24hours moderate FCT (1976) 14, 631
Germ Cell Mutagenicity	Data not found
Carcinogenicity	Skin sensitization category 1 under EC 1272/2008
Reproductive toxicity	Not listed as reprotoxic.
STOT single exposure	Data not found
STOT repeated exposure	Data not found
Aspiration hazard	Not listed as an aspiration hazard under EC 1272/2008; nevertheless, avoid breathing toxic vapor – use respirator in case of (larger) spillages.
Photo toxicity	Not photo-toxic
Other Information	Flammable liquid Category 3 under EC 1272/2008



12. ECOLOGICAL INFORMATION	
Ecotoxicity	Very toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water
Mobility	Not determined
Persistence & Biodegradability	Not determined, but believed to be 100% biodegradable
Bioaccumulation Potential	Not determined but believed to be low
PBT Assessment Results	No data found
Precautions	Avoid discharge into the environment especially into waterways, sewers and the sea
13. DISPOSAL CONSIDERATIONS	
Disposal Methods	Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.
14. TRANSPORT INFORMATION	
Warning Icon	 
Proper Shipping Name	EXTRACTS, AROMATIC, LIQUID (not viscous), ENVIRONMENTALLY HAZARDOUS
UN No. Road	UN 1169
ADR Class	Class 3
Hazard No (ADR)	3
Hazchem Code	ADR hazard number *3YE
UN No. SEA	UN 1169
IMDG Class	Class 3
IMDG Pack Gr.	Pk Gp III
EMS	F-E, S-D
UN No. AIR	UN 1169
Air Class	Class 3
Air Pack Gr.	Pk Gp III
15. REGULATORY INFORMATION	
EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 th Dec 2006 Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
US Federal Regulations	Listed on the United States TSCA (Toxic Substances Control Act) inventory
California Proposition 65	This product can expose you to eugenyl methyl ether, myrcene, and safrole, which is known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov
CANADA Regulations	Listed on the Canadian DSL (Domestic Substances List)
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716)
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.



<p>NFPA Rating</p> 	HMIS Rating	
	HEALTH	1
	FLAMMABILITY	2
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	-

16. OTHER INFORMATION	
Revision Date	09/22
Rev No/Repl, SDS Generated	3
Risk Phrases in Full Risk Phrases in Full (cont)	R10 Flammable R43 May cause sensitisation by skin contact R45 May cause cancer R51/53 Toxic to aquatic organisms and may cause long-term effects in the aquatic environment R65 May cause lung damage if swallowed R68 Possible risk of irreversible effects
Hazard Statements in Full	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 H411 Very toxic to aquatic life with long-lasting effects
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011.

Disclaimer & Caution

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