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SAFETY DATA SHEET

TRADE NAME: NUTMEG OIL

INDONESIA

REVISION: 20.10.2020

1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1	Trade Name	NUTMEG OIL INDONESIA
1.2	Relevant Identified Uses of the Substance or Mixture and Uses Advised Against	No further relevant information available.
	Application of the Substance/the Preparation	Multiple uses.
1.3	Details of the Supplier of the Safety Data Sheet	H Reynaud & Fils (UK) Ltd, Unit 1 Strand Court, Watt Close, East Portway Business Park, Andover, Hampshire, SP10 3TG TEL: 01264 355504 EMAIL: office@reynaud.co.uk
1.4	Further Information Obtainable from	H REYNAUD & FILS (UK) LTD

2 Hazards Identification

2.1 Classification of the Substance or Mixture:

Classification According to Regulation (EC) No. 1272/2008:

GHS02 Flame	Flam. Liq. 3	H226 Flammable liquid and vapour.
GHS08 Health Hazard	Carc. 1B Asp. Tox. 1	H350 May cause cancer. H304 May be fatal if swallowed and enters airways.
GHS09 Environment	Aquatic Acute 1 Aquatic Chronic 2	H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
GHS07	Acute Tox. 4 Skin Irrit. 2 Skin Sens. 1	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction.

2.2 Label Elements:

Labelling According to Regulation (EC) No. 1272/2008	The product is classified and labelled according to the CLP regulation.
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Hazard Pictograms:



Signal Word	DANGER
Hazard-determining Components of Labelling	Alpha Pinene Safrole Natural Beta Pinene 4-Carvomenthenol d-limonene Beta Caryophyllene Linalool Terpinolene

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	Longifolene Delta-3-Carene
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Hazard Statements:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards:

Results of PBT Assessment	Not applicable.
Results of vPvB Assessment	Not applicable.

3 Composition/Information on Ingredients

3.1	Chemical Characterisation	Mixtures.
	Description	NCS (UVCB) Constituents Information.

3.2 Hazardous Components:

ID Numbers	Chemical Name, Classification & Hazards	Quantity
CAS: 80-56-8 EC: 201-291-9	Alpha Pinene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	25-50%
CAS: 127-91-3 EC: 204-872-5	Beta Pinene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-25%
CAS: 5989-27-5 EC: 227-813-5	d-limonene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	1-10%
CAS: 87-44-5 EC: 201-746-1	Beta Caryophyllene Asp. Tox. 1, H304; Skin Sens. 1B, H317; Aquatic Chronic 4, H413	1-10%
CAS: 78-70-6 EC: 201-134-4	Linalool Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	1-10%

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CAS: 562-74-3 EC: 209-235-5	4-Carvomenthenol Acute Tox. 4, H302; Skin Irrit. 2, H319; Eye Irrit. 2, H319	1-10%
CAS: 99-85-4 EC: 202-794-6	p-Mentha-1,4-diene Flam. Liq. 3, H226; Repr. 2, H361; Asp. Tox. 1, H304 Specific concentration limit: Repr. 2, H361: C ≥3%	1-10%
CAS: 123-35-3 EC: 204-622-5	Myrcene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-10%
CAS: 99-87-6 EC: 202-796-7	p-cymene Flam. Liq. 3, H226; Repr. 2, H361; Asp. Tox. 1, H304; Aquatic Chronic 2, H411 Specific concentration limit: Repr. 2, H361: C ≥3%	1-10%
CAS: 586-62-9 EC: 209-578-0	Terpinolene Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	≤1%
CAS: 94-59-7 EC: 202-345-4	Safrole Natural Muta. 2, H341; Carc. 1B, H350; Acute Tox. 4, H302 Specific concentration limits: Muta. 2, H341: C ≥1% Carc. 1B, H350: C ≥0.1%	≤1%
CAS: 475-20-7 EC: 207-491-2	Longifolene Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	≤1%
CAS: 13466-78-9 EC: 236-719-3	Delta-3-Carene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1B, H317	≤1%
CAS: 79-92-5 EC: 201-234-8	Camphene Flam. Sol. 1, H228; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤1%
CAS: 93-15-2 EC: 202-223-0	Methyl Eugenol Muta. 2, H341; Carc. 2, H351; Acute Tox. 4, H302 Specific concentration limits: Muta. 2, H341: C ≥1% Carc. 2, H351: C ≥1%	≤1%
CAS: 97-53-0 EC: 202-589-1	Eugenol Eye Irrit. 2, H319; Skin Sens. 1B, H317	≤1%
Additional Information For the wording of the listed hazard phrases refer to Section 16.		

4 First Aid Measures

4.1	Description of First Aid Measures	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.
	After Inhalation	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air.

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	After Skin Contact	Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water. If skin irritation continues, consult a doctor.
	After Eye Contact	Rinse opened eye for several minutes under running water.
	After Swallowing	Call for a doctor immediately. Inform doctor. Do not give milk or fatty oils.
4.2	Most Important Symptoms and Effects, both Acute and Delayed	No further relevant information available.
4.3	Indication of Immediate Medical Attention and Special Treatment Needed	No further relevant information available.

5 Fire-fighting Measures

5.1	Suitable Extinguishing Agents	Carbon dioxide (CO ₂), powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
	Unsuitable Extinguishing Agents	Water with full jet.
5.2	Special Hazards Arising from the Substance or Mixture	Carbon monoxide (CO).
5.3	Advice for Fire-fighters	No special measures required.

6 Accidental Release Measures

6.1	Personal Precautions, Protective Equipment and Emergency Procedures	Wear protective equipment. Keep unprotected persons away.
6.2	Environmental Precautions	Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.
6.3	Methods and Material for Containment and Cleaning Up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
6.4	Reference to Other Sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and Storage

7.1	Precautions for Safe Handling	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
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	Information about Fire and Explosion Protection	Keep ignition sources away – do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
7.2	Conditions for Safe Storage, Including any Incompatibilities	Store only in unopened original receptacles. Keep receptacle tightly sealed. Store in the dark.
7.3	Specific End Use(s)	No further relevant information available.



8 Exposure Controls/Personal Protection

Additional Information about Design of Technical Facilities	No further data; see item 7.
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8.1 Control Parameters:

Ingredients with Limit Values that Require Monitoring at the Workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional Information	The lists valid during the making were used as basis.

8.2 Exposure Controls:

Personal Protective Equipment	No information available.
General Protective and Hygienic Measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin.
Respiratory Protection	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Hand Protection	 <p>Protective gloves.</p> <p>The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>
Eye Protection	 <p>Tightly sealed goggles.</p>

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9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties:

Appearance	Liquid.
Colour	According to product specification.
Odour	Characteristic.
Initial Boiling Point/Boiling Range	154°C
Flash Point (Closed Cup – ASTM D6450)	38°C
Flammability (Solid, gaseous)	Not applicable.
Decomposition Temperature	Not determined.
Auto-ignition Temperature	Product is not self-igniting.
Explosive Properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Lower Explosion Limit	Not determined.
Upper Explosion Limit	Not determined.
Vapour Pressure	Not determined.
Specific Gravity at 20°C	0.875 to 0.885 g/cm ³
Evaporation Rate	Not determined.
Solubility in/Miscibility with Water	Not miscible or difficult to mix.
Other Information	No further relevant information available.

10 Stability and Reactivity

10.1	Reactivity	No further relevant information available.
10.2	Chemical Stability	
	Thermal Decomposition/Conditions to be Avoided	No decomposition if used according to specifications.
10.3	Possibility of Hazardous Reactions	No dangerous reactions known.
10.4	Conditions to Avoid	No further relevant information available.
10.5	Incompatible Materials	No further relevant information available.
10.6	Hazardous Decomposition Products	No dangerous decomposition products known.

11 Toxicological Information

11.1 Information on Toxicological Effects:

Acute Toxicity	Harmful if swallowed.
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LD/LC50 Values Relevant for Classification:

80-56-8 Alpha Pinene		
Oral	LD50	500 mg/kg (ATE).
	Acute Toxicity Estimate (ATE)	500 mg/kg (Rat).
586-62-9 Terpinolene		
Oral	LD50	3775 mg/kg (Rat).
94-59-7 Safrole Natural		
Oral	LD50	1950 mg/kg (Rat).
Dermal	LD50	>5000 mg/kg (Rabbit).






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13466-78-9 Delta-3-Carene			
Oral	LD50	4800 mg/kg (Rat).	
Inhalative	LC50/4h ATE (Inhalation: dust/mist)	11 mg/l (ATE) 1.5 (Rat)	
93-15-2 Methyl Eugenol			
Oral	LD50	1180 mg/kg (Rat)(Acute toxic class method).	
11.2 Primary Irritant Effect:			
Skin Corrosion/Irritation		Causes skin irritation.	
Serious Eye Damage/Irritation		Based on available data, the classification criteria are not met.	
Respiratory or Skin Sensitisation		May cause an allergic skin reaction.	
Germ Cell Mutagenicity		Based on available data, the classification criteria are not met.	
Carcinogenicity		May cause cancer.	
Reproductive Toxicity		Based on available data, the classification criteria are not met.	
STOT-single Exposure		Based on available data, the classification criteria are not met.	
STOT-repeated Exposure		Based on available data, the classification criteria are not met.	
Aspiration Hazard		May be fatal if swallowed and enters airways.	
12 Ecological Information			
12.1	Toxicity	Aquatic Toxicity	No further relevant information available.
12.2	Persistence and Degradability	No further relevant information available.	
12.3	Bioaccumulative Potential	No further relevant information available.	
12.4	Mobility in Soil	No further relevant information available.	
	Ecotoxical Effects	Remark	Very toxic for fish.
	Additional Ecological Information	General Notes	Do not allow product to reach ground water, water course or sewage system, even in small quantities. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.
12.6	Results of PBT and vPvB Assessment	Not applicable.	
12.7	Other Adverse Effects	No further relevant information available.	
13 Disposal Considerations			
13.1	Waste Treatment Methods	Must not be disposed together with household garbage. Do not allow product to reach sewage system.	
	Uncleaned Packaging	Disposal must be made according to official regulations.	

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14 Transport Information		
14.1	UN Number ADR, IMDG, IATA	UN1169
14.2	UN Proper Shipping Name ADR	UN1169 EXTRACTS, AROMATIC, LIQUID
	IMDG	UN1169 EXTRACTS, AROMATIC, LIQUID (Alpha Pinene, Beta Pinene), MARINE POLLUTANT
	IATA	EXTRACTS, AROMATIC, LIQUID
14.3	Transport Hazard Class(es) ADR	  3 (F1) Flammable liquids. 3
	IMDG	  3 Flammable liquids. 3
	IATA	 3 Flammable liquids. 3
14.4	Packing Group ADR, IMDG, IATA	III
14.5	Environmental Hazards	Product contains environmentally hazardous substances: Alpha Pinene.
	Marine Pollutant	Symbol (fish and tree)
	Special Marking ADR	Symbol (fish and tree)
14.6	Special Precautions for User	Warning: Flammable liquids.
	Hazard Identification Number (Kemler Code)	30
	EMS Number	F-E, S-D
	Stowage Category	A
14.7	Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
14.8	Transport/Additional Information	
	ADR	
	Limited Quantities (LQ)	5L
	Excepted Quantities (EQ)	Code: E1
		Maximum net quantity per inner packaging: 30ml
		Maximum net quantity per outer packaging: 1000ml
	Transport Category	3

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	Tunnel Restriction Code	D/E
	IMDG Limited Quantities (LQ) Excepted Quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30ml Maximum net quantity per outer packaging: 1000ml
14.9	UN "Model Regulation"	UN1169 EXTRACTS, AROMATIC, LIQUID, 3, III

15 Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

Directive 2012/18/EU	
Named Dangerous Substances	ANNEX I – None of the ingredients is listed.
Seveso Category	E1 – Hazardous to the Aquatic Environment. P5c FLAMMABLE LIQUIDS.
Qualifying Quantity (tonnes) for the Application of Lower-tier Requirements	100 t
Qualifying Quantity (tonnes) for the Application of Upper-tier Requirements	200 t
Regulation (EC) No. 1907/2006 Annex XVII	Conditions of restriction: 3, 28.

National Regulations:

Information about Limitations of Use	Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
15.2 Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out.

16 Other Information

16.1 Relevant Phrases:

H226	Flammable liquid and vapour.
H228	Flammable solid.
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.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.

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H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.2 Abbreviations and Acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG	International Maritime Code for Dangerous Goods.
IATA	International Air Transport Association.
GHS	Globally Harmonised System of Classification and Labelling of Chemicals.
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
CAS	Chemical Abstracts Service (Division of the American Chemical Society).
LC50	Lethal concentration, 50 percent.
LD50	Lethal dose, 50 percent.
PBT	Persistent, Bioaccumulative and Toxic.
vPvB	Very Persistent and very Bioaccumulative.
Flam. Liq. 3	Flammable liquids, Hazard Category 3.
Flam. Sol. 1	Flammable solids, Hazard Category 1.
Acute Tox. 4	Acute toxicity, Hazard Category 4.
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2.
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2.
Skin Sens. 1	Sensitisation – Skin, Hazard Category 1.
Skin Sens. 1B	Sensitisation – Skin, Hazard Category 1B.
Muta. 2	Germ cell mutagenicity, Hazard Category 2.
Carc. 1B	Carcinogenicity, Hazard Category 1B.
Carc. 2	Carcinogenicity, Hazard Category 2.
Repr. 2	Reproductive Toxicity, Hazard Category 2.
Asp. Tox. 1	Aspiration hazard, Hazard Category 1.
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1.
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2.
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4.

WARNING/DISCLAIMER:

The information in this Material Safety Data Sheet is based on the properties of the material known to H Reynaud at the time the data sheet was issued. The safety data sheet is intended to provide information for health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. This document is not intended for quality assurance purposes.