

Issue date: 27/06/2025

Version: 2 (27/06/2025)

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Nutmeg Essential Oil 391K

Version: 2

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: Myristica Fragrans Fruit Oil; CAS: 84082-68-8

Other identifiers: Pure Nutmeg Essential Oil

1.2 Relevant identified uses of the substance of mixture and uses advised against

Product uses: Flavours, Fragrances, Cosmetic Product

1.3 Details of the supplier of the safety data sheet

Company name: Amphora Aromatics Limited

Company address: Airfield House,

Western Drive,

Bristol, BS14 0AF

Contact: Regulatory Affairs

E-Mail address: info@amphora-aromatics.com

Company phone: +44 (0) 117 904 7212

1.4 Emergency telephone number

Emergency phone: +44 (0) 117 904 7212

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of Flammable Liquid, Hazard Category 3

danger: Acute Toxicity - Oral Category 4

Skin Corrosion / Irritation Category 2 Sensitization - Skin Category 1

Germ Cell Mutagenicity Category 2

Carcinogenicity Category 1B

Toxic to Reproduction Category 2

Aspiration Hazard Category 1

Hazardous to the Aquatic Environment - Acute Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 1

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.



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H341, Suspected of causing genetic defects (exposure route).

H350, May cause cancer (exposure route).

H361, Suspected of damaging fertility or the unborn child (exposure route).

H410, Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Danger

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.

H341, Suspected of causing genetic defects (exposure route).

H350, May cause cancer (exposure route).

H361, Suspected of damaging fertility or the unborn child (exposure route).

H410, Very toxic to aquatic life with long lasting effects.

M factor: None

Supplemental Information:

None

Precautionary statements:

P202, Do not handle until all safety precautions have been read and understood.

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P233, Keep container tightly closed.

P240, Ground/bond container and receiving equipment.

P241, Use explosion-proof electrical, ventilating and lighting equipment.

P242, Use only non-sparking tools.

P243, Take precautionary measures against static discharge.

P261, Avoid breathing vapour or dust.

P264, Wash hands and other contacted skin thoroughly after handling.

P270, Do not eat, drink or smoke when using this product.

P272, Contaminated work clothing should not be allowed out of the workplace.

P273, Avoid release to the environment.

P280, Wear protective gloves/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.

P308/313, IF exposed or concerned: Get medical advice/attention.

P330, Rinse mouth.

P331, Do not induce vomiting.





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P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P362, Take off contaminated clothing and wash before reuse.

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.

P391, Collect spillage.

P403/235, Store in a well-ventilated place. Keep cool.

P405, Store locked up.

P501, Dispose of contents/container to approved disposal site, in accordance with local

regulations.







Pictograms:

2.3 Other hazards

Other hazards: Hydrocarbon Concentration %: 116.7500%

Section 3. Composition / information on ingredients

3.1 Substances

Product identifier: Myristica Fragrans Fruit Oil; CAS: 84082-68-8

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
Thuj-4(10)-ene	3387-41-5	222-212-4		50.00%	Flam. Liq. 3-Acute Tox. 4;H226-H302,-	
alpha-Pinene	80-56-8	201-291-9		50.00%	Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H304- H315-H317,-	M = 1-M = 1-oral: ATE = 3500 mg/kg bw
beta-Pinene	127-91-3	204-872-5		20.00%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-	M = 1-M = 1
4-Carvomenthenol	562-74-3	209-235-5		10.00%	Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2;H302- H315-H319,-	dermal: ATE = 2500 mg/kg bw-oral: ATE = 1300 mg/kg bw
d-Limonene	5989-27-5, 138-86-3, 7705-14-8, 5989-54-8	227-813-5		9.56%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-	M = 1
Eucalyptol	470-82-6	207-431-5		5.00%	Flam. Liq. 3-Skin Sens. 1B;H226-H317,-	oral: ATE = 2480 mg/kg bw





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Myrcene	123-35-3	204-622-5	5.00%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2-Asp. Tox 1;H226-H304-H315- H319,-	
alpha-Phellandrene	99-83-2	202-792-5	5.00%	Flam. Liq. 3-Asp. Tox 1;H226-H304,-	
beta-Phellandrene	555-10-2	209-081-9	5.00%	Flam. Liq. 3-Asp. Tox 1;H226-H304,-	
delta-3-Carene	13466-78-9	236-719-3	5.00%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H304- H315-H317,-	oral: ATE = 4800 mg/kg bw
p-Cymene	99-87-6	202-796-7	5.00%	Flam. Liq. 3-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H411,-	oral: ATE = 4750 mg/kg bw
p-Mentha-1,4-diene	99-85-4	202-794-6	5.00%	Flam. Liq. 3-Asp. Tox 1;H226-H304,-	oral: ATE = 3850 mg/kg bw
p-Mentha-1,3-diene	99-86-5	202-795-1	3.59%	Flam. Liq. 3-Acute Tox. 4-Asp. Tox 1-Aquatic Chronic 2;H226-H302- H304-H411,-	oral: ATE = 1680 mg/kg bw
Terpinolene	586-62-9	209-578-0	2.60%		M = 1-oral: ATE = 3850 mg/kg bw
Eugenyl methyl ether	93-15-2	202-223-0	1.12%	Acute Tox. 4-Muta. 2- Carc. 2;H302-H341- H351,-	oral: ATE = 810 mg/kg bw
Camphene	79-92-5	201-234-8	1.00%	Flam. Sol. 2-Eye Irrit. 2-Aquatic Acute 1- Aquatic Chronic 1; H228-H319-H410,-	
Safrole (from natural sources)	94-59-7	202-345-4	1.00%	Acute Tox. 4-Muta. 2- Carc. 1B;H302-H341- H350,-	oral: ATE = 1950 mg/kg bw
Eugenol	97-53-0	202-589-1	0.20%	Eye Irrit. 2-Skin Sens. 1B;H317-H319,-	oral: ATE = 2300 mg/kg bw
Isoeugenol	97-54-1, 5932-68-3	202-590-7, 227-678-2	0.14%	Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1A; H302-H312-H315- H317-H319,- Acute Tox. 4-Acute dermal: ATE = 19 mg/kg bw-oral: AT 1500 mg/kg bw	
Geranyl acetate	105-87-3	203-341-5	0.12%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Chronic 3; H315-H317-H412,-	

Section 4. First-aid measures

4.1 Description of first aid measures

Inhalation: Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

Eye exposure: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist. **Skin exposure:** IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with

water/shower.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May be fatal if swallowed and enters airways.





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Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects (exposure route).

May cause cancer (exposure route).

Suspected of damaging fertility or the unborn child (exposure route).

4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

Do not eat, drink or smoke when using this product.



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7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.3 Specific end use(s):

Flavours, Fragrances, Cosmetic Product: Use in accordance with good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State/Colour: Mobile liquid, pale yellow.

Odour: Characteristic of nutmeg

Odour threshold:Not determinedMelting point / freezing point:Not determinedBoiling point or initial boiling point and boilingNot determined

range:

Flammability: Not determined

Lower and upper explosion limit: Not determined

Flash point: 36 °C

Auto-ignition temperature:Not determinedDecomposition temperature:Not relevantpH:Not determinedKinematic viscosity:Not determinedSolubility:Not determined



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Partition coefficient: n-octanol/water (log Not determined

value):

Vapour pressure:Not determinedDensity and/or relative density:0.8540 - 0.9100Relative vapour density:Not determinedParticle characteristics:Not determined

9.2 Other information: None available

Section 10. Stability and reactivity

10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:

Good stability under normal storage conditions.

10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

10.4 Conditions to avoid:

Avoid extreme heat.

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:

Not expected.

Section 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity: Acute Toxicity - Oral Category 4

Acute Toxicity Oral 757
Acute Toxicity Dermal >5000

Acute Toxicity Inhalation Not Available

Skin corrosion/irritation: Skin Corrosion / Irritation Category 2

Serious eye damage/irritation: Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Sensitization - Skin Category 1

Germ cell mutagenicity: Germ Cell Mutagenicity Category 2

Carcinogenicity: Carcinogenicity Category 1B

Reproductive toxicity: Toxic to Reproduction Category 2

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: Aspiration Hazard Category 1



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Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral (mg/kg)	LD50/ATE Dermal (mg/kg)	LC50/ATE Inhalation	LC50 Route
4-Carvomenthenol	562-74-3	209-235-5	1300	2500	Not available	Not available
Eugenyl methyl ether	93-15-2	202-223-0	810	Not available	Not available	Not available
Safrole (from natural sources)	94-59-7	202-345-4	1950	Not available	Not available	Not available
Thuj-4(10)-ene	3387-41-5	222-212-4	500	Not available	Not available	Not available
p-Mentha-1,3-diene	99-86-5	202-795-1	1680	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

11.2 Information on other hazards

Not Applicable

Section 12. Ecological information

12.1 Toxicity:

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 Mobility in soil:Not available

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties: Not Applicable12.7 Other adverse effects: Not available

Section 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):	Sub Risk:	14.4 Packing Group:
UN Model Regulations	UN1197	EXTRACTS, LIQUID	3	-	III
IMDG	UN1197	EXTRACTS, LIQUID (beta-Pinene) MARINE POLLUTANT	3	-	III



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ADR,RID,ADN	UN1197	EXTRACTS, LIQUID	3	-	III
ICAO TI	UN1197	EXTRACTS, LIQUID	3	-	III

14.5 Environmental hazards: This is classified as an environmentally hazardous substance under the UN

Model Regulations. This is classified as a Marine Pollutant under the IMDG

Code.

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture None additional

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

Section 16. Other information

Concentration % Limits: SCI 2=10.04% EDI 2=62.50% SS 1=2.00% MUT 2=89.29% CAR 1B=10.

00% CAR 2=89.29% AH 1=8.57% EH A1=75.39% EH C1=75.39% EH

C2=7.35% EH C3=0.73488345% EH C4=59.88%

Total Fractional Values: SCI 2=9.96 EDI 2=1.60 SS 1=50.00 MUT 2=1.12 CAR 1B=10.00 CAR 2=1.

12 AH 1=11.68 EH A1=1.33 EH C1=1.33 EH C2=13.61 EH C3=136.08 EH

C4=1.67

Key to revisions:

Classification under Regulation (EC) No 1272/2008

Key to abbreviations:

Abbreviation	Meaning	
Acute Tox. 4	Acute Toxicity - Oral Category 4	
Acute Tox. 4	Acute Toxicity - Dermal Category 4	
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1	
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1	
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2	
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3	
Asp. Tox 1	Aspiration Hazard Category 1	
Carc. 1B	Carcinogenicity Category 1B	
Carc. 2	Carcinogenicity Category 2	
Eye Irrit. 2	Eye Damage / Irritation Category 2	
Flam. Liq. 3	Flammable Liquid, Hazard Category 3	
Flam. Sol. 2	Flammable Solid, Hazard Category 2	
H226	Flammable liquid and vapour.	





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Flammable solid.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Harmful in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing genetic defects (exposure route).
May cause cancer (exposure route).
Suspected of causing cancer (exposure route).
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.
Harmful to aquatic life with long lasting effects.
Germ Cell Mutagenicity Category 2
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames and hot surfaces No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical, ventilating and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing vapour or dust.
Wash hands and other contacted skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/eye protection/face protection.
Use personal protective equipment as required.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTRE or doctor/physician if you feel unwell.
Rinse mouth.
Do not induce vomiting.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.





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P363	Wash contaminated clothing before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 1A	Sensitization - Skin Category 1A
Skin Sens. 1B	Sensitization - Skin Category 1B

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.