The eScential Group

Flavors. Fragrances. Essential Oils

TECHNICAL DATA SHEET

NUTMEG OIL P&N

PRODUCT NAME:	**Nutmeg Oil P&N**	**REVISION DATE:**	**11/18/2026**
PRODUCT CODE:	**14-5025-BB**	**VERSION #:**	**1**

IDENTIFIERS:

CAS#:	**8008-45-5**
FEMA#	**2793**
BOTANICAL NAME:	***Myristica fragans Houtt.***
PRODUCTION PROCESS:	**Steam Distillation**

PHYSICAL PROPERTIES:

ODOR:	**Characteristic**
COLOR:	**Colorless to Pale Yellow**
APPEARANCE:	**Liquid**
SPECIFIC GRAVITY ($d_{20/20}$):	**0.880 to 0.910**
SPECIFIC GRAVITY ($d_{25/25}$):	**0.877 to 0.907**
REFRACTIVE INDEX ($_{nD20}$):	**1.474 to 1.488**
FLASH POINT:	**48°C, 118°F**

STORAGE / SHELF LIFE:

STORAGE:	**Store product in full, tightly closed containers in a cool dry place.**
STABILITY / SHELF LIFE:	**Stable for one year when stored under recommended conditions; retest after one year for acceptability.**

Print Date: November 18, 2026

CONFIDENTIAL

8 MARLEN DRIVE, HAMILTON, NEW JERSEY 08691– TEL 732-677-1100
E-MAIL: INFO@ESCENTIALGROUP.COM – WEBSITE: WWW.ESCENTIALGROUP.COM

SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

Product: Nutmeg Oil P&N 14-5025-BB

Version: 2

1. IDENTIFICATION

Product Identifier

Product identifier: Nutmeg Oil P&N; CAS: 8008-45-5

Other identifiers: Myristica fragans houtt

Recommended use of the chemical and restrictions on use

Product uses: Fragrance & Flavor

Supplier Details

Company name: The eScential Group

Company address: 8 Marlen Drive
Hamilton NJ 08691
USA

Contact: Regulatory Affairs

E-Mail address: regulatory@globalessence.com

Company phone: 732-677-1100

Emergency telephone number

Emergency phone: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

Classification

This product is classified under 29CFR 1910.1200(d) as follows:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Class and category of danger:
Flammable Liquid, Hazard Category 3
Acute Toxicity - Oral Category 4
Skin Corrosion / Irritation Category 2
Eye Damage / Irritation Category 2
Sensitization - Skin Category 1
Germ Cell Mutagenicity Category 2
Carcinogenicity Category 1B
Toxic to Reproduction Category 2
Aspiration Hazard Category 1

Signal word: Danger

Hazard statements:
Flammable liquid and vapour.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.

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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).

M factor: None

Pictograms:



Precautionary statements:

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.
Wear protective gloves/eye protection/face protection.
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.
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.
Rinse mouth.
Do not induce vomiting.
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.
In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to approved disposal site, in accordance with local regulations.

Hazards not otherwise classified (HNOC) None

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Product identifier: Nutmeg Oil P&N; CAS: 8008-45-5

Contains:

Name	CAS	%	GHS Classification
alpha-Pinene	80-56-8	20-<50%	Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H302-H304-H315-H317
beta-Pinene	127-91-3	10-<20%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H304-H315-H317
Terpinen-4-ol	562-74-3	5-<10%	Flam. Liq. 4-Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1-STOT SE 3;H227-H302-H315-H317-H320-H332-H336
p-Mentha-1,4-diene	99-85-4	5-<10%	Flam. Liq. 3-Repr. 2-Asp. Tox 1;H226-H304-H361
d-Limonene	5989-27-5	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H304-H315-H317
p-Mentha-1,3-diene	99-86-5	1-<5%	Flam. Liq. 3-Acute Tox. 4-Eye Irrit. 2B-Skin Sens. 1-Asp. Tox 1;H226-H302-H304-H317-H320
beta-Phellandrene	555-10-2	1-<5%	Flam. Liq. 3-Skin Sens. 1-Asp. Tox 1; H226-H304-H317
Myrcene	123-35-3	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H226-H304-H315-H319
Safrole (from natural sources)	94-59-7	1-<5%	Acute Tox. 4-Muta. 2-Carc. 1B;H302-H341-H350
Terpinolene	586-62-9	1-<5%	Flam. Liq. 4-Skin Sens. 1B-Asp. Tox 1; H227-H304-H317
Eugenyl methyl ether	93-15-2	1-<5%	Acute Tox. 4-Muta. 2-Carc. 2;H302-H341-H351
p-Cymene	99-87-6	1-<5%	Flam. Liq. 3-Acute Tox. 3-Repr. 2-Asp. Tox 1;H226-H304-H331-H361
alpha-Terpineol	98-55-5	1-<5%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2A; H227-H315-H319
delta-3-Carene	13466-78-9	1-<5%	Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1-Asp. Tox 1;H226-H304-H315-H317-H332
alpha-Phellandrene	99-83-2	0.1-<1%	Flam. Liq. 3-Skin Sens. 1-Asp. Tox 1; H226-H304-H317
Isoeugenol	97-54-1	0.1-<1%	Acute Tox. 4-Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1A-STOT SE 3;H302-H312-H315-H319-H317-H332-H335
Cresol (mixed isomers)	1319-77-3	0.1-<1%	Flam. Liq. 4-Acute Tox. 3-Acute Tox. 3-Skin Corr. 1B-Eye Dam. 1;H227-H301-H311-H314

The exact percentage concentrations of components are being withheld as a trade secret.

4. FIRST-AID MEASURES

Description of first aid measures

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

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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.

Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye 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).

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

Specific hazards arising from the chemical

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

Protective Equipment and Precautions for Firefighters

In case of insufficient ventilation, wear suitable respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

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

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.

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7. HANDLING AND STORAGE

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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Other exposure guidelines

No information available

Exposure controls

Engineering measures

Showers, eyewash stations, ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face and Skin Protection

Wear protective gloves/eye protection/face protection, and suitable protective clothing

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

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Product: Nutmeg Oil P&N 14-5025-BB

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Appearance:	Colorless to Pale Yellow Liquid
Odor:	Characteristic
Odor threshold:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Not determined
Flash point:	48 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not relevant
pH:	Not determined
Viscosity:	Not determined
Solubility(ies):	Not determined
Partition coefficient: n-octanol/water:	Not determined
Vapor pressure:	Not determined
Relative density:	0.8800 - 0.9100
Vapor density:	Not determined
Particle Characteristics:	Not determined

Other information: None available

10. STABILITY AND REACTIVITY

Reactivity:

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

Chemical stability:

Good stability under normal storage conditions.

Possibility of hazardous reactions:

Not expected under normal conditions of use.

Conditions to avoid:

Avoid extreme heat.

Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

Hazardous decomposition products:

Not expected.

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity:	Acute Toxicity - Oral Category 4
Acute Toxicity Oral	1764
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 2
Serious eye damage/irritation:	Eye Damage / Irritation Category 2
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:	
Additional Information	None available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Very toxic to aquatic life with long lasting effects.

Persistence and degradability:	Not available
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment

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.

14. TRANSPORT INFORMATION

US DOT:	Not Regulated (If shipped in NON BULK packaging by ground transport) according to 49 CFR 173.150(f)(1). This material can be reclassified as NA1993, Combustible liquid, NOS if it is shipped in bulk.

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	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
US DOT	Not classified	-	-	-	-
US DOT (Bulk)	UN1197	EXTRACTS, LIQUID	3	-	-
IMDG	UN1197	EXTRACTS, LIQUID (alpha-Pinene) MARINE POLLUTANT	3	-	III
ADR,RID,ADN	UN1197	EXTRACTS, LIQUID	3	-	III
IATA TI	UN1197	EXTRACTS, LIQUID	3	-	III

US DOT refers to domestic transport by road/rail within the 48 ground states

US DOT (Bulk) refers to domestic bulk transport by road/rail within the 48 ground states.

Environmental hazards: This is an environmentally hazardous substance.

Special precautions for user: None additional

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

Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

None additional

Additional information

Tariff Code: 3301.29.5125

FEMA#: 2793

FDA#: 182.20

16. OTHER INFORMATION

Issue date: 11/18/2026

Version: 2 Version Date: 11/11/2026

Key to revisions:

2 Classification

3 Composition/information on ingredients

Hazardous Ingredients disclosed in a OSHA GHS Safety Data Sheet with banded concentrations

US Department Of Transport Class

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US Department Of Transport Sub Risks

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.