



【SAFETY DATA SHEET】

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- Product name : Shiso(Perilla) Essential Oil
- Botanical name: *Perilla frutescens*
- INCI name: Perilla Ocymoides Leaf/Stem Oil

• SUPPLIER

Company name: Jyuhachinichi, Ltd. (18th, Ltd)

Address: 2-7-1, videofocus building 4F, wakaba Shinjyuku-ku, Tokyo 160-0011, Japan

Tel: 81-3-5362-3188

Fax: 81-3-5362-3181

Information in case of emergency: Aya Horiki

SECTION 2: HAZARD IDENTIFICATION

- GHS Classification : Class 4
- GHS Label Elements :
 - Symbols/Pictograms : Not applicable
 - Signal Word : Warning
 - Hazardous information : Combustible liquid

• SUMMARY OF DANGER OR TOXICITY

Precaution advises

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P240 Ground/bond container and receiving 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.

P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302/352 IF INHALED: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use ... for extinction.

P391 Collect spillage. Hazardous to the aquatic environment

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container Dispose of contents/container according to regulation in force

• OTHER DANGER INFORMATION

Not regulated

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

• DEFINITION

Distinction between single compound and mixture: Single

Composition: Essential oil extracted through steam distillation

Chemical : Shiso oil (*Perilla frutescens*, ext.)

None genetically modified organism

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None ionization
None nanomaterials
None use of ethylene oxide

Main ingredient composition:

ingredient	Content	Chemical formula	CAS NO.
Perill aldehyde	About 50%	C ₁₀ H ₁₄ O	2111-75-3
Limonene	About 15%	C ₁₀ H ₁₆	138-86-3

CAS NO. : 90082-61-4

SECTION 4: FIRST-AID MEASURES

Eye contact: Rinse immediately with clean water for at least 15 minutes. Seek medical attention if necessary.

Skin Contact: Rinse immediately with clean water for at least 15 minutes. Seek medical attention if necessary.

Inhalation: Immediately move to fresh air and rest. Seek medical attention if necessary.

Ingestion: Rinse mouth out well with clear water and rest. Seek medical attention if necessary.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing material: Foam or carbon dioxide gas type extinguishers. Caution in case of fire: May emit toxic gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid exposure. Wear appropriate protective equipment to prevent inhalation or skin contact with vapor.

Environmental precautions: To prevent the oil to flow into public water area or to permeate into the ground, do not wash away spilled oil on the floor with water.

Methods for cleaning up: Wear appropriate protective equipment such as rubber gloves. Wipe off with a duster and discharge to a drainage.

SECTION 7: HANDLING AND STORAGE

Technical measures: Wear protective goggles and protective gloves if necessary to avoid inhalation or eye contact.

Safety measurement: Provide local ventilation system. Carry out the sealing of facilities or general ventilation.

Precautions for handling: Wear appropriate protective equipments to avoid inhalation and contact with skin.

Storage: Keep in a cool and dark space. Avoid direct sunlight. Keep away from any source of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Handle the product in a place with ventilation system. Keep away from beverages and foods. Wear protective clothing, safety glasses and rubber gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear pale yellow to brown

Odor: Characteristic

Relative density (20°C): 0.9182±0.02

Boiling point: N/A

Flash point: 82°C

Explosive limit: N/A

Vapor pressure: N/A

Ethanol solubility: Soluble

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Partition coefficient/Distribution coefficient: N/A
Vapor density: N/A

SECTION 10: STABILITY, REACTIVITY

Stability: Stable under normal conditions. Chemical reactions can be triggered through heat or light.

Possibility of hazardous reactions and adverse reactions: Not expected under normal handling conditions.

Conditions to avoid: High temperature, high humidity or ultraviolet radiation. Decomposability: Decomposition will not occur under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Oral acute toxicity: Not classified

Perilaldehyde (C10H14O)

Oral UN classification standard: Category 5

LIMONEN (C10H16)

Oral UN classification standard: Category 5

Dermal UN Classification Standard: Category 5

Skin corrosion and irritation: Not confirmed

Skin sensitization: Perilaldehyde (C10H14O)

UN classification criteria: Category 2

Limonene (C10H16)

UN classification criteria: Category 1

Photosensitization: Not confirmed

Eye stimulation: Not confirmed

Carcinogenicity: Not confirmed

Mutagenicity: Not confirmed

IFRA Guideline: Perilaldehyde (C10H14O)

Limonene (C10H16)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: N/A

Biodegradability: N/A

Accumulativity: N/A

Other information: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Waste from residues: Dispose in accordance with applicable laws and regulations of local and national governments. If local governments or disposal contractors approved by prefectural governors undertake waste disposal processing, consign the waste to them.

Containers: Containers should be recycled or disposed in the same way described above after its contents are thoroughly washed.

SECTION 14: TRANSPORT INFORMATION

Transport in accordance with international laws and regulations related to dangerous goods.

International Standards

UN number: N/A

Class: N/A

Packing group: N/A

Marine pollutant: N/A



Domestic Standards

Land transport: Subject to the provisions of the Fire Services Act

Air transport: Subject to the Civil Aeronautics Law

Marine transport: Subject to the Ship Safety Act

SECTION 15: JAPANESE REGULATORY INFORMATION

Order for Enforcement of Industrial Safety and Health Act official gazette serial number: Shiso (Perilla frutescens) essential oil

Industrial Safety and Health Law number: 18193

Fire Services Act: Category IV, Class II petroleum (water - insoluble)

Air Pollution Control Law: N/A

Marine Pollution Prevention Law: N/A

Civil Aeronautics Law: N/A

Ship Safety Act: Flammable liquids: high flash point flammable liquid

SECTION 16: OTHER INFORMATION

References-Naoki Okazaki, Shigehiro Matsunaka, Mitsuo Kondo, Akihiko Okamoto (1982) Skin, Volume 24, No. 2 Perfume skin flame experiment with perilla (Shiso) Animal Search — 250-256 NITE: National Institute of Technology for Product Evaluation

<http://www.safe.nite.go.jp/japan/db.html> IATA Dangerous Goods Regulations

RTECS: Registry of Toxic Effects of Chemical Substances

Central Industrial Accident Prevention Association GHS Model SDS Information

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