



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: Identification

Item	Details
Product Name	Fresh Pandan Leaves Absolute
Alternative Names	Fresh Pandan Leaf Absolute 30%, Pandan Absolute, Fragrant Screwpine Leaf Extract
Botanical Name	<i>Pandanus amaryllifolius</i> Roxb.
INCI Name	Pandanus Amaryllifolius Leaf Extract
CAS Number	1175005-60-30
FEMA Number	4963
Country of Origin	Vietnam
Plant Part	Fresh leaves
Extraction Method	Solvent extraction of fresh leaves, followed by concentration and dilution
Product Concentration	30% fresh pandan leaf absolute
Carrier	70% perfumery-grade carrier; batch-specific identity must be confirmed
Product Type	Natural aromatic extract diluted to 30%
Recommended Use	Professional perfumery, fragrance development, cosmetic and personal-care formulations
Uses Advised Against	Internal consumption, food use unless separately certified, undiluted skin application and use by children

CAS 1175005-60-3 and FEMA 4963 are used for pandan leaf extract or distillate derived from the leaves of *Pandanus amaryllifolius*.

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SECTION 2: HAZARD IDENTIFICATION

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

No harmonised classification has been identified for the complete commercial mixture under the generic product name.

Based on a formulation containing 30% pandan leaf absolute in 70% non-flammable, non-hazardous perfumery carrier, the mixture is not expected to meet the criteria for classification as hazardous.

Natural botanical constituents may nevertheless cause irritation or an allergic reaction in sensitive individuals.

Potential Hazard	Assessment
Skin irritation	Prolonged or repeated contact may cause irritation
Eye irritation	Direct contact may cause temporary irritation
Skin sensitisation	An allergic reaction cannot be excluded
Environmental effects	Avoid concentrated release
Flammability	Dependent on the actual carrier solvent

Signal Word

No signal word required under the assumed formulation.

Hazard Pictograms

No hazard pictogram required under the assumed formulation.

Supplemental Hazard Statement

- EUH208: May produce an allergic reaction.

Precautionary Statements

Prevention

- P261: Avoid breathing vapour, mist or spray.
- P264: Wash thoroughly after handling.
- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye protection during bulk handling.

Response

- P302+P352: IF ON SKIN: Wash with plenty of soap and water.



- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses when present and easy to do. Continue rinsing.
- P333+P313: If skin irritation or rash occurs, obtain medical advice.
- P337+P313: If eye irritation persists, obtain medical advice.

Storage

- Keep the container tightly closed.
- Store in a cool, dry and well-ventilated place.
- Protect from direct sunlight, heat, moisture and air exposure.

Disposal

- P501: Dispose of contents and container in accordance with applicable regulations.

Carrier-Solvent Qualification

If ethanol or another flammable solvent is used, the product may require:

- GHS02 flame pictogram
- Signal word: Warning
- H225 or H226 flammable-liquid classification
- Class 3 dangerous-goods transport classification

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

Component	CAS Number	Concentration	Function
<i>Pandanus amaryllifolius</i> leaf absolute	1175005-60-3	30%	Natural aromatic extract
Perfumery-grade carrier solvent	Batch specific	70%	Diluent and carrier

Typical Naturally Occurring Constituents

Constituent or Group	CAS Number	Indicative Status
2-Acetyl-1-pyrroline	85213-22-5	Characteristic pandan aroma constituent; normally present at very low concentration
Phytol	150-86-7	May be naturally present
Squalene	111-02-4	May be naturally present
Green-leaf aldehydes and	Various	Naturally occurring



alcohols

Fatty acids and esters	Various	Naturally occurring
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Chlorophyll-derived compounds	Various	May be present
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Other plant-derived aromatic compounds	Various	Naturally occurring
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The characteristic pandan aroma is strongly associated with 2-acetyl-1-pyrroline. FEMA describes the pandan leaf extract identified under FEMA 4963 as derived from *Pandanus amaryllifolius* leaves and containing less than 0.05% pyrroline derivatives in an appropriate solvent.

Fresh pandan absolute may be prepared using low-temperature solvent extraction to retain its delicate rice-like, toasted and creamy aroma.

The composition may vary according to cultivation, leaf freshness, harvest, extraction solvent and manufacturing process.

SECTION 4: FIRST-AID MEASURES

Inhalation

Move the affected person to fresh air and keep them comfortable for breathing.

Seek medical attention if coughing, dizziness, headache, nausea or respiratory irritation persists.

Skin Contact

Remove contaminated clothing.

Wash the affected area thoroughly with soap and plenty of water.

Seek medical advice if redness, irritation, itching or rash develops.

Eye Contact

Rinse cautiously with clean water for at least 15 minutes.

Remove contact lenses when present and easy to do. Continue rinsing.

Seek medical attention if irritation persists.

Ingestion



Rinse the mouth with water.

Do not induce vomiting unless directed by qualified medical personnel.

Contact a physician or poison centre if a significant quantity is swallowed or symptoms develop.

Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects

- Mild skin irritation
- Redness or itching
- Allergic skin reaction
- Eye irritation or tearing
- Headache or nausea following excessive vapour exposure
- Gastrointestinal discomfort if swallowed

Advice to Medical Personnel

Treat symptomatically.

Provide information regarding the actual carrier solvent.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use an extinguishing medium appropriate for the carrier and surrounding fire:

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Fine water spray for cooling containers

Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet where it may spread burning liquid.

Specific Fire Hazards

Flammability depends on the carrier solvent.



Heating or combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Smoke
- Irritating organic vapours
- Unidentified decomposition products

Protective Equipment for Firefighters

Wear self-contained breathing apparatus and suitable protective clothing.

Cool exposed containers with water spray.

Prevent contaminated fire-fighting water from entering drains or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Ensure adequate ventilation.
- Avoid breathing vapour, mist or aerosol.
- Avoid contact with skin and eyes.
- Wear gloves and safety glasses.
- Remove unnecessary personnel.
- Eliminate ignition sources if the carrier is flammable or unknown.

Environmental Precautions

Prevent entry into:

- Drains
- Sewers
- Surface water
- Groundwater
- Soil

Notify the relevant authorities if a significant release enters the environment.

Containment and Cleaning

Absorb with inert, non-combustible material such as:



- Sand
- Vermiculite
- Diatomaceous earth
- Commercial oil absorbent

Transfer to a suitable labelled waste container.

Clean the surface with detergent and water without allowing contaminated wash water to enter drains.

SECTION 7: HANDLING AND STORAGE

Safe Handling

- Use in a well-ventilated area.
- Avoid breathing concentrated vapour or aerosol.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection.
- Do not eat, drink or smoke while handling.
- Wash hands after use.
- Use clean, dry and odour-free equipment.
- Keep the container closed when not in use.
- Do not use for internal consumption.

Storage Conditions

Store:

- In the original tightly closed container
- In a cool, dry and well-ventilated place
- Away from direct sunlight
- Away from heat and ignition sources
- Away from strong oxidising agents
- Away from food and beverages
- Out of reach of children

Recommended Storage Temperature

Approximately 15–25 °C, unless otherwise specified by the supplier.

Natural colour darkening or slight sedimentation may occur during storage. Allow the product to reach room temperature and mix gently before use.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

No specific occupational exposure limit has been established for the complete mixture or pandan leaf absolute.

Applicable exposure limits for the actual carrier solvent must be observed.

Engineering Controls

Provide adequate general ventilation.

Use local exhaust ventilation where vapour, mist or aerosol may be generated.

Ensure an eyewash facility is available near the handling area.

Personal Protective Equipment

Protection Type	Recommendation
Eye and face protection	Safety glasses or chemical splash goggles
Hand protection	Chemical-resistant nitrile gloves
Skin protection	Laboratory coat, apron or suitable protective clothing
Respiratory protection	Normally unnecessary with adequate ventilation; use suitable respiratory protection where ventilation is insufficient
Hygiene measures	Wash hands after handling and before eating, drinking or smoking

Protective equipment must also be suitable for the actual carrier solvent.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical or Indicative Specification
Physical state	Liquid
Appearance	Clear to slightly turbid liquid
Colour	Yellow-green, olive-green or green-brown
Odour	Fresh pandan leaf, sweet, green, rice-like, nutty, creamy and slightly toasted
Odour threshold	Not determined
Relative density at 20°C	Carrier and batch dependent



Refractive index at 20 °C	Carrier and batch dependent
Flash point	Carrier dependent
Boiling point/range	Not determined for the mixture
Vapour pressure	Carrier dependent
Vapour density	Carrier dependent
Water solubility	Generally insoluble or slightly dispersible
Solubility in alcohol	Generally soluble or dispersible
Solubility in oils	Generally soluble or dispersible
Partition coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Low to moderate; batch dependent
Explosive properties	Not expected to be explosive
Oxidising properties	Not classified as oxidising

The physical properties of a 30% dilution are significantly influenced by the carrier. Batch-specific test results should therefore take precedence.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reaction is expected under normal handling and storage conditions.

Chemical Stability

Stable when stored in a tightly closed container under recommended conditions.

Natural colour and aroma may change gradually during prolonged storage.

Possibility of Hazardous Reactions

Hazardous polymerisation is not expected.

The product may react with strong oxidising agents.

Conditions to Avoid

- Excessive heat



- Direct sunlight
- Prolonged exposure to air
- Moisture contamination
- Open flames and sparks where a flammable carrier is used
- Storage in unsuitable containers

Incompatible Materials

- Strong oxidising agents
- Strong acids
- Strong alkalis
- Reactive halogen compounds
- Materials incompatible with the carrier

Hazardous Decomposition Products

Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, smoke and irritating organic vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Skin contact
- Eye contact
- Inhalation
- Accidental ingestion

Acute Toxicity

No reliable acute-toxicity data are available for the complete 30% commercial mixture.

The product is not expected to be acutely toxic under normal professional handling conditions, subject to confirmation of the carrier.

Skin Corrosion/Irritation

Prolonged or repeated contact may cause mild irritation.

Serious Eye Damage/Irritation

Direct contact may cause temporary redness, discomfort and tearing.



Respiratory Sensitisation

No reliable data are available.

Skin Sensitisation

An allergic reaction cannot be excluded in sensitive individuals.

Germ-Cell Mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive Toxicity

Not classified based on available information.

Specific Target-Organ Toxicity — Single Exposure

High concentrations of vapour or aerosol may cause:

- Headache
- Dizziness
- Nausea
- Respiratory discomfort

Specific Target-Organ Toxicity — Repeated Exposure

No reliable information is available for the complete mixture.

Aspiration Hazard

Classification depends on the viscosity and hydrocarbon content of the actual carrier.

Do not induce vomiting after ingestion unless directed by qualified medical personnel.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Complete ecological data are not available.



Concentrated release may adversely affect aquatic organisms.

Persistence and Degradability

The natural extract contains plant-derived constituents that may be biodegradable. The complete product's degradability depends on the carrier.

Bioaccumulative Potential

No complete data are available.

Some hydrophobic constituents may have bioaccumulative potential.

Mobility in Soil

The product may adsorb to soil and organic matter.

Mobility depends on the carrier.

PBT and vPvB Assessment

No complete assessment is available for the commercial mixture.

Other Adverse Effects

Avoid uncontrolled release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of the product through an authorised chemical-waste contractor in accordance with applicable regulations.

- Do not discharge into drains, sewers or waterways.
- Do not dispose of with general household waste.
- Avoid contamination of soil.
- Dispose of contaminated absorbent as chemical waste.
- Empty containers may retain product residue.
- Do not reuse containers for food or beverages.

Waste classification must account for the actual carrier solvent.

SECTION 14: TRANSPORT INFORMATION



Transport classification depends on the carrier solvent, measured flash point, environmental classification, package size and mode of transport.

Under the assumed formulation containing a non-flammable carrier:

Transport Information	Indicative Status
UN Number	Not assigned
UN Proper Shipping Name	Not regulated as dangerous goods
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Environmental Hazard	Not expected; batch assessment required
Marine Pollutant	Not expected; batch assessment required
ADR/RID	Not generally regulated
IMDG	Not generally regulated
IATA/ICAO	Not generally regulated

Flammable-Carrier Warning

If the product contains sufficient ethanol or another low-flash-point solvent, it may require classification as:

- UN 1993 — Flammable Liquid, N.O.S.
- Transport Class 3
- Appropriate packing group based on measured properties

The formulation and flash point must be confirmed before shipment.

SECTION 15: REGULATORY INFORMATION

This Safety Data Sheet has been structured with reference to:

- Regulation (EC) No. 1907/2006 — REACH
- Regulation (EC) No. 1272/2008 — CLP
- Globally Harmonized System of Classification and Labelling of Chemicals
- Regulation (EC) No. 1223/2009 on cosmetic products
- Applicable ADR, RID, IMDG and IATA requirements

The finished-product manufacturer is responsible for:

- Confirming the carrier identity
- Reviewing applicable IFRA Standards
- Assessing fragrance-allergen content



- Completing the finished-product safety assessment
- Verifying cosmetic and chemical compliance
- Determining the correct transport classification

This material is supplied as a professional perfumery raw material and is not intended for internal consumption.

SECTION 16: OTHER INFORMATION

Relevant Supplemental Statement

- **EUH208:** May produce an allergic reaction.

Document Information

Item	Details
Document Type	Material Safety Data Sheet / Safety Data Sheet
Product	Fresh Pandan Leaves Absolute 30% (Vietnam)
Botanical Source	<i>Pandanus amaryllifolius</i> Roxb.
Issue Date	17 July 2026
Revision Number	01
Supersedes	New document
Intended Users	Professional, commercial and industrial users

FORMULATION QUALIFICATION

This MSDS assumes that the product contains:

- 30% Fresh Pandan Leaves Absolute
- 70% non-flammable perfumery-grade carrier

The document must be revised if the actual carrier is ethanol, isopropyl alcohol, a hydrocarbon solvent or another substance that changes the product's hazard or transport classification.

DISCLAIMER

The information in this Safety Data Sheet is based on available information for *Pandanus amaryllifolius* leaf extract and a representative 30% perfumery dilution.

Pandan absolute is a Natural Complex Substance. Its composition, colour, odour, physical properties and safety profile may vary according to:



- Botanical source
- Cultivation and harvest conditions
- Freshness of the leaves
- Extraction solvent and temperature
- Concentration process
- Carrier solvent
- Production batch

Batch-specific analytical data, carrier information, flash-point testing and supplier classification must take precedence over generic information.

This document provides guidance for safe handling, storage, transportation and use. It does not constitute a warranty of suitability for a particular application.

The user is responsible for determining the suitability of the product and complying with all applicable legislation.

The product is not intended for internal consumption and must be kept securely away from children.

Authorised by:

Fozia Khot

Director