

01. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Product Name	Plai Thailand
Biological Definition	Essential oil obtained by steam distillation of the rhizomes of Zingiber cassumunar Roxb. (syn. Zingiber montanum).
INCI Name	Zingiber Cassumunar Root Oil
Botanical Name	Zingiber cassumunar Roxb. (syn. Zingiber montanum)
Country of Origin	Thailand
Product Use	Aromatic raw material for fragrance, cosmetic, and professional formulation use.
Synonyms and Trade Names	Plai Oil; Cassumunar Ginger Oil; Zingiber montanum Root Oil
Supplier	West Coast Aromatics
Supplier Address	2701 Conestoga Dr Unit 106, Carson City, NV 89706, USA
Telephone	775-387-3000
Emergency Phone	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY
CAS Number	84696-15-1 / 8007-08-7
EC / EINECS Number	283-634-2

02. HAZARDS IDENTIFICATION

Signal: Danger



Emergency Overview	Flammable liquid and vapor. May be fatal if swallowed and enters airways. May cause skin irritation or an allergic skin reaction. Toxic to aquatic life with long lasting effects.
GHS Classification	Flammable liquids Category 3; Skin irritation Category 2; Skin sensitization Category 1; Aspiration hazard Category 1; Aquatic chronic Category 2.
Contains	Naturally occurring constituents may include sabinene, terpinen-4-ol, gamma-terpinene, beta-myrcene, and phenylbutanoid constituents.
PBT or vPvB	This product is not expected to meet PBT or vPvB criteria.
Hazard statement(s)	H226 Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statement(s)	P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking. P233 Keep container tightly closed. P261 Avoid breathing vapor or spray. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P391 Collect spillage. P501 Dispose of contents and container in accordance with applicable regulations.

03. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS	EC	Concentration	Classification
Zingiber Cassumunar Root Oil	84696-15-1 / 8007-08-7	283-634-2	100%	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Asp. Tox. 1; Aquatic Chronic 2

04. FIRST AID MEASURES

General Information	See categories below.
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

05. FIRE FIGHTING MEASURES

Extinguishing Media	Use CO2, dry powder or foam type extinguishers. Do not use direct water jet on burning material.
Unsuitable Extinguishing Media	Do not use direct water jet on burning material.
Special Fire Fighting Procedures	Wear protective clothing. Avoid inhalation of vapors.
Specific Hazards	Closed containers may build up pressure when exposed to heat.
Protective Measures in Fire	Cool exposed containers with water spray.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other unidentified organic compounds may be formed.

06. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.
Environmental Precautions	Do not discharge directly into drains, soil, or waterways.
Spill Clean Up Methods	Absorb with sand or inert material and transfer to suitable waste container.
Containment Methods	Contain spill with inert absorbent and collect for disposal.

07. HANDLING AND STORAGE

Usage Precautions	Apply good manufacturing practice and industrial hygiene practices. Ensure proper workplace ventilation.
Storage Precautions	Store in tightly closed original container in a cool, dry, ventilated area away from heat and protected from light.

08. EXPOSURE CONTROLS / PERSONAL PROTECTION



Engineering Measures	Ensure good ventilation of working area.
Respiratory Equipment	Use suitable respiratory equipment if ventilation is insufficient.
Hand Protection	Use chemically resistant gloves.
Eye Protection	Use safety glasses or tightly sealed goggles.
Other Protection	Protective clothing as required.
Hygiene Measures	Wash hands with soap and water after handling.

Substance	OSHA	ACGIH	STEL	California Prop65
Plai Thailand Essential Oil	Not Established	Not Established	Not Established	Not Established

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear oily liquid; colorless to pale yellow or greenish.
Color	Colorless to pale yellow or greenish.
Odor	Fresh, herbaceous, camphoraceous, and softly spicy.
Boiling Point	No product-specific value established; typical essential-oil range.
Flash Point	Published values vary by method; approximately 47 C to 76 C.
Relative Density	Published typical range: 0.880 to 0.925 at 20 C.
Specific Gravity	Published typical range: 0.880 to 0.925 at 20 C.
Solubility in Water	Insoluble in water.
Solubility Other	Soluble in alcohol and fixed oils.
Refractive Index	Published typical range: 1.477 to 1.509 at 20 C.
Optical Rotation	Published typical range: -44 to -33 degrees at 20 C.

10. STABILITY AND REACTIVITY

Reactivity	This material presents no significant reactivity hazard under normal conditions.
Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Avoid heat, sparks, open flames, and direct light.
Material to Avoid	Strong oxidizing agents.

Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other unidentified organic compounds may be formed during combustion.
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11. TOXICOLOGICAL INFORMATION

Acute Toxicity	No complete product-specific acute toxicity dataset is available.
Skin corrosion / irritation	May cause skin irritation.
Serious eye damage / irritation	May cause eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction in sensitized individuals.
Carcinogenicity	No product-specific classification established from available information.
Chronic Toxicity	Repeated exposure may cause sensitization in susceptible individuals.
Oral LD50	Not available for this product.
Inhalation LD50	Not available for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic life with long lasting effects. Avoid environmental release.
Mobility	No complete product-specific data available.
Persistence and Biodegradability	No complete product-specific data available.
Bioaccumulation Potential	No complete product-specific data available.
Precautions	Prevent entry into drains, surface water, soil, or groundwater.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Dispose of contents and container in accordance with local, state, provincial, and federal regulations.
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14. TRANSPORT INFORMATION

Proper Shipping Name	EXTRACTS, AROMATIC, LIQUID
UN Number Road	UN 1169
ADR Class	3
Hazard Number ADR	3
UN Number Sea	UN 1169
IMDG Class	3
IMDG Pack Group	III
UN Number Air	UN 1169
Air Class	3
Air Pack Group	III

15. REGULATORY INFORMATION

EU Directives	Regulation (EC) No 1907/2006 and related amendments where applicable.
US Federal Regulations	Applicable U.S. inventory and workplace hazard communication requirements.
California Proposition 65	This product may contain naturally occurring beta-myrcene. Customer-specific exposure assessment and current Proposition 65 review may be required.
Canada Regulations	Applicable Canadian inventory requirements where relevant.
Statutory Instruments	Applicable hazard information and packaging frameworks.
Approved Code of Practice	Classification, labeling, and SDS guidance for substances and preparations.
Guidance Notes	Applicable workplace exposure limits and industrial hygiene guidance.

16. OTHER INFORMATION

Risk Phrases in Full	Not applicable under current GHS format.
Hazard Statements in Full	Physical and chemical values shown are representative published ranges for Plai essential oil. Natural composition varies by crop, geography, and distillation.
Other Information	Complies with internal SDS formatting guidance.
Other Classification	This SDS is prepared from current reliable technical references and product identity information. It is not a certificate of lot-specific laboratory analysis.
Disclaimer and Caution	Please refer to all relevant technical information specific to the product prior to use. The information contained in this document is obtained from current and reliable sources. West Coast Aromatics provides the information contained herein but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products.