

PLUME™

THE ART OF ATMOSPHERE

Safety Data Sheet

This Safety Data Sheet was prepared using supplier hazard data and classified in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Revision 1.0 | August 20, 2026

24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

SECTION 1

Identification

Product Name	Ash & Alder
Product Code / SKU	P-FN-38
Product Type	Fragrance Oil Blend
Collection	Field Notes
Manufacturer	PLUME™ Louisiana, USA www.PlumeFragrance.com contact@plumefragrance.com

Recommended Use

Fragrance ingredient for candles, melts, soap and home fragrance products. PLUME™ fragrances are carefully developed to deliver exceptional preformance in candle applications while remaining versatile for use across multiple fragranced products when used within applicable IFRA usage limits.

Restrictions on Use

Supplied as a fragrance ingredient for further manufacturing only. Not intended to be used undiluted or as a finished consumer product. Do not use in food, drugs, or apply directly to skin unless the finished product has been appropriately formulated, evaluated for safety, and complies with applicable regulations and IFRA Standards.

Prepared By PLUME™ Regulatory Affairs

Hazard Identification

GHS US Classification

Classification of the substance or mixture

Skin corrosion/irritation, Category 2

H315 Causes skin irritation.

Serious eye damage/eye irritation, Category 2

H319 Causes serious eye irritation.

Skin sensitization, Category 1

H317 May cause an allergic skin reaction.

GHS US Labeling

Hazard pictogram (GHS US):

GHS07 — Exclamation Mark



Signal word (GHS US): Warning

Hazard statements (GHS US):

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements (GHS US):

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash hands, forearms and face thoroughly after handling.

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

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of 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.

P321 Specific treatment (see supplemental first aid instruction on this label).

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

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

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

Other hazards:

No additional information available.

Unknown acute toxicity (GHS US):

Not applicable.

Composition/Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Name	Product Identifier	%	GHS US classification
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)	CAS No. 54464-57-2	10–30	Skin Irrit. 2, H315; Skin Sens. 1B, H317
VANILLIN	CAS No. 121-33-5	1–5	Eye Irrit. 2A, H319
BENZYL SALICYLATE	CAS No. 118-58-1	1–5	Eye Irrit. 2B, H320; Skin Sens. 1B, H317
2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-2-(methylpropyl)-	CAS No. 63500-71-0	1–5	Eye Irrit. 2A, H319
ETHYL VANILLIN	CAS No. 121-32-4	1–5	Eye Irrit. 2B, H320
3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol	CAS No. 65113-99-7	1–5	Eye Irrit. 2A, H319
LINALYL ACETATE	CAS No. 115-95-7	1–5	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2B, H320; Skin Sens. 1B, H317
ETHYL LINALOOL	CAS No. 10339-55-6	1–5	Flam. Liq. 4, H227; Eye Irrit. 2A, H319; Skin Sens. 1B, H317

SECTION 4

First-aid measures

4.1 Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison center/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation: None under normal conditions.

Symptoms/effects after skin contact: May cause an allergic skin reaction.

Symptoms/effects after eye contact: None under normal conditions.

Symptoms/effects after ingestion: None under normal conditions.

4.3 Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5

Fire-Fighting measures

Suitable (and unsuitable extinguishing media

Suitable extinguishing media :Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

Specific Hazards

Fire Hazard: Extremely Flammable liquid and vapor

Explosion Hazard: No direct explosion hazard

Special protective equipment and precautions for fire-fighters

Firefighting instructions

Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Complete protective clothing.

Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures

Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For Non-Emergency Personnel

Protective Equipment

Wear recommended personal protective equipment.

Emergency Procedures

Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

For Emergency Responders

Protective Equipment

Do not attempt to take action without suitable protective equipment. For further information refer to Section 8: Exposure Controls/Personal Protection.

Emergency Procedures

Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental Precautions

Avoid release to the environment. Prevent entry into drains, surface waters, groundwater, and soil.

Methods and Material for Containment and Cleaning Up

Absorb spilled material with sand, earth, vermiculite, or other inert absorbent material. Collect and place in suitable containers for disposal. Dispose of in accordance with local, state, and federal regulations.

Handling and Storage

Precautions for Safe Handling

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for Safe Storage, Including Any Incompatibilities

Technical measures: : Keep in a cool, well-ventilated place away from heat.

Storage conditions: : Keep cool. Protect from sunlight.

Packaging materials: Always store product in container of same material as original container.

Exposure Controls / Personal Protection

Control Parameters

No occupational exposure limits established for the mixture.

Eye / Skin Protection

Wear protective gloves, eye protection, face protection and [In case of inadequate ventilation] wear respiratory 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.

Engineering Controls

Use in areas with adequate ventilation.

Physical and Chemical Properties

Property	Value
Physical state	Liquid
Color	No data available
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	>212 °F
Relative evaporation rate (butyl acetate=1)	No data available
Flammability	Not applicable
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Section 10

Stability and Reactivity

Reactivity

The product is non-reactive under normal conditions of use, storage and transport

Chemical Stability

Stable under normal conditions of storage and handling.

Possibility of Hazardous Reactions

Not expected under normal conditions of use.

Conditions to Avoid

None under recommended storage and handling conditions (see section 7).

Incompatible Materials

No additional information available

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Toxicological Information

Toxicological Classification

Acute Toxicity
 Acute Toxicity (Oral)
 Acute Toxicity (Dermal)
 Acute Toxicity (Inhalation)
 Skin Corrosion / Irritation
 Serious Eye Damage / Irritation
 Respiratory or Skin Sensitization
 Germ Cell Mutagenicity
 Carcinogenicity
 Reproductive Toxicity
 STOT — Single Exposure
 STOT — Repeated Exposure
 Aspiration Hazard

Information

No data available
 No data available
 No data available
 No data available
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 No data available
 No data available
 No data available
 No data available
 No data available
 No data available

Viscosity, kinematic: No data available.

Symptoms/effects after inhalation: None under normal conditions.

Symptoms/effects after skin contact: Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact: Eye irritation.

Symptoms/effects after ingestion: None under normal conditions.

Ingredient-specific toxicity data

BENZYL SALICYLATE (118-58-1)

LD50 oral rat: 3031–3339 mg/kg body weight

LD50 dermal rabbit: >2000 mg/kg body weight

ATE US (oral): 2200 mg/kg body weight

ETHYL LINALOOL (10339-55-6)

ATE US (oral): 5000 mg/kg body weight

ETHYL VANILLIN (121-32-4)

LD50 oral rat: >3160 mg/kg body weight

LD50 dermal rat: >2000 mg/kg body weight

ATE US (oral): 3000 mg/kg body weight

VANILLIN (121-33-5)

LD50 oral rat: 3300 mg/kg body weight

LD50 dermal rat: >2000 mg/kg body weight

ATE US (oral): 3300 mg/kg body weight

ATE US (dermal): 2600 mg/kg body weight

Ecological Information

Toxicity

Component | Toxicity Data

Benzyl Salicylate (118-58-1)

LC50 Fish [1]: 1.03 mg/L; EC50 Crustacea [1]: 1.16 mg/L

Linalyl Acetate (115-95-7)

LC50 Fish [1]: 11 mg/L; EC50 Crustacea [1]: 15 mg/L

Ethyl Vanillin (121-32-4)

LC50 Fish [1]: 87.6 mg/L; EC50 Crustacea [1]: 36.79 mg/L; EC50 Algae: 120 mg/L

Vanillin (121-33-5)

LC50 Fish [1]: 57 mg/L; EC50 Crustacea [1]: 36.79 mg/L; EC50 Algae: 120 mg/L

Persistence and degradability

Component | Persistence and degradability

Benzyl Salicylate (118-58-1)

Readily biodegradable in water.

Linalyl Acetate (115-95-7)

Readily biodegradable in water.

Ethyl Linalool (10339-55-6)

Biodegradability in water: no data available.

Ethyl Vanillin (121-32-4)

Readily biodegradable in water. BOD: 1.81 g O₂/g substance; BOD (% of ThOD): 0.629 (5 days).

2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-2-(methylpropyl)- (63500-71-0)

Biodegradability in water: no data available.

Vanillin (121-33-5)

Readily biodegradable in water.

Bioaccumulative potential

Benzyl Salicylate (118-58-1)

BCF – Fish [1]: 1170; Log Pow: 4; Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

Linalyl Acetate (115-95-7)

Log Pow: 3.93; Low potential for bioaccumulation (Log Kow <4).

Ethyl Linalool (10339-55-6)

No bioaccumulation data available.

Ethyl Vanillin (121-32-4)

Log Pow: 1.58; Low potential for bioaccumulation (Log Kow <4).

Vanillin (121-33-5)

Log Pow: 1.17; Low potential for bioaccumulation (Log Kow <4).

Mobility in soil

Component | Mobility in soil

Benzyl Salicylate (118-58-1)

Surface tension: 69 mN/m (20°C, 0.004 g/L); Organic Carbon Normalized Adsorption Coefficient (Log Koc): 3.75; Ecology – soil: Low potential for mobility in soil.

Linalyl Acetate (115-95-7)

Adsorbs into the soil.

Ethyl Vanillin (121-32-4)

Organic Carbon Normalized Adsorption Coefficient (Log Koc): 3.092; Ecology – soil: Low potential for mobility in soil.

2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-2-(methylpropyl)- (63500-71-0)

No bioaccumulation data available.

Vanillin (121-33-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc): 3.438; Ecology – soil: Low potential for mobility in soil.

Disposal Considerations

Category	Requirement
Regional waste regulation	Disposal must be done according to official regulations.
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Disposal must be done according to official regulations.
Additional information	Flammable vapors may accumulate in the container. Do not re-use empty containers.

Section 14

Transport Information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT)

UN3082 Environmentally hazardous substances, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro- 2,3,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)), 9, III

UN No. (DOT): UN3082

Proper Shipping Name (DOT): Environmentally hazardous substances, liquid, n.o.s.

Class (DOT): 9

Packing group (DOT): III Minor Danger

Label (DOT): 9 Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.240): 203

DOT Packaging Bulk (49 CFR 173.241/173.242): 241

DOT Symbols: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102): 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.

173 - An appropriate generic entry may be used for this material.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx): No Limit
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): No Limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 173.27): No Limit
DOT Vessel Stowage Location: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Emergency Response Guide (ERG) Number: 171
Other information: No supplementary information available.

Section 15

Regulatory Information

15.1. US Federal regulations
No additional information available

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR 372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Section 16

Other Information

Revision History		
Version	Date	Description
1	08/20/2026	Initial release

Disclaimer
The information contained in this Safety Data Sheet is believed to be accurate and is based on information available at the date of publication. It is provided solely as guidance for the safe handling, storage, transportation, use, and disposal of this product. No warranty, expressed or implied, is made regarding its accuracy or completeness. Users are responsible for determining the suitability of this product for their intended application and for complying with all applicable laws and regulations.