

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 4, 2026

24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

SECTION 1

Identification

Product Name	August
Product Code / SKU	P-CA-71
Product Type	Fragrance Oil Blend
Collection	Calendar
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

Classification

Hazard Class

	Category
Skin Corrosion / Irritation	2
Skin Sensitization	1
Toxic to Reproduction	2
Serious eye damage/eye irritation	2

Signal Word: **WARNING**

Hazard Statements

H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child (exposure route)
H315	Causes skin irritation
H319	Causes serious eye irritation

Precautionary Statements

P261	Avoid breathing dust, fume, gas, mist, vapors, spray.
P264	Wash hands and other contacted skin thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/eye protection/face protection
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P391	Collect spillage
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention
P337+313	If eye irritation persists: Get medical advice/attention
P370+378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction
P403+235	Store in a well-ventilated place. Keep cool
P405	Store locked up
P201	Obtain special instructions before use
P321	Specific treatment (see supplemental first aid instruction on this label)
P362+364	Take off contaminated clothing and wash it before reuse

GHS Pictograms



Other Hazards

No additional information available

Composition / Information on Ingredients

Substance Type

Mixture – Proprietary Fragrance Oil Blend

Hazardous components are listed below in accordance with applicable hazard communication requirements.

Hazardous Ingredients

Ingredient Name	CAS No.	%	GHS Classification
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)	54464-57-2	5–10%	Skin Irrit. 2, H315; Skin Sens. 1B, H317
Benzyl Salicylate	118-58-1	1–5%	Eye Irrit. 2B, H320; Skin Sens. 1B, H317
Benzyl Benzoate	120-51-4	1–5%	Acute Tox. 4 (Oral), H302
Geraniol	106-24-1	1–5%	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317
Amyl Salicylate	2050-08-0	1–5%	Acute Tox. 4 (Oral), H302
Linalool	78-70-6	1–5%	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317
Coumarin	91-64-5	1–5%	Acute Tox. 4 (Oral), H302; Skin Sens. 1B, H317
1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	21145-77-7	1–5%	Acute Tox. 4 (Oral), H302
Hexyl Cinnamal	101-86-0	1–5%	Skin Sens. 1B, H317
Acetyl Cedrene	32388-55-9	1–5%	Skin Sens. 1B, H317
Linalyl Acetate	115-95-7	1–5%	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2B, H320; Skin Sens. 1B, H317
Pentadecalactone	106-02-5	1–5%	Skin Sens. 1B, H317
Helional	1205-17-0	0.1–1%	Skin Sens. 1B, H317; Repr. 2, H361
Citral	5392-40-5	0.1–1%	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317

First Aid Measures

4.1 Description of first aid measures

First-aid measures general

If exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact

Eye irritation.

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

Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

Unsuitable extinguishing media: Do not use a heavy water stream

Special hazards arising from the substance or mixture

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

Advice for fire fighters:

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

Section 6

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

Keep away from heat, sparks, open flames, and hot surfaces — no smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink, or smoke when using this product.

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.

Specific end use(s)

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices

Conditions for Safe Storage, Including Any Incompatibilities

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

Storage conditions: Store locked up.

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

Exposure Controls / Personal Protection

Workplace Exposure Limits

Not applicable.

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.

Physical and Chemical Properties

Physical State	Liquid
Odour	Not determined
Odour threshold	Not determined
Melting point / freezing point	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not determined
Flash point	> 212°F
Auto-ignition temperature	Not determined
Decomposition temperature	Not relevant
pH	Not determined
Kinematic viscosity	Not determined
Solubility	Not determined
Partition coefficient: n-octanol/water (log value)	Not determined
Vapour pressure	Not determined
Density and/or relative density	-0.0150- 0.0150
Relative vapour density	Not determined

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.

Section 11

Toxicological Information

This mixture has not been tested as a whole for health effects. Health effects have been calculated using the methods outlined in the UN GHS.

Toxicological Classification

Acute Toxicity	Based on available data, the classification criteria are not met
Acute Toxicity (Oral)	>5000 mg/kg
Acute Toxicity (Dermal)	Not available
Acute Toxicity (Inhalation)	Not available
Skin Corrosion / Irritation	Skin Corrosion / Irritation
Serious Eye Damage / Irritation	Causes serious eye irritation
Respiratory or Skin Sensitization	May cause an allergic skin reaction
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive Toxicity	Suspected of damaging fertility or the unborn child
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	Based on available data, the classification criteria are not met

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.

Toxicological Information: Ingredient Data

Toxicity

GERANIOL (106-24-1)

LD50 oral rat: 3600 mg/kg body weight (Rat, Male/female, Experimental value, Oral, 14 day(s))
 LD50 dermal rabbit: > 5000 mg/kg (Rabbit, Experimental value, Dermal)
 ATE US (oral): 3600 mg/kg body weight

LINALOOL (78-70-6)

LD50 oral rat: 2790 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral, 14 day(s))
 LD50 dermal rabbit: 5610 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s))
 ATE US (oral): 2790 mg/kg body weight
 ATE US (dermal): 5610 mg/kg body weight

BENZYL BENZOATE (120-51-4)

LD50 oral rat: > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
 LD50 dermal rabbit: > 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal)
 ATE US (oral): 1160 mg/kg body weight

AMYL SALICYLATE (2050-08-0)

LD50 oral rat: 4100 mg/kg body weight (Rat, Experimental value, Oral)
 LD50 dermal rabbit: > 5000 mg/kg body weight (Rabbit, Experimental value, Skin)
 ATE US (oral): 2000 mg/kg body weight

BENZYL SALICYLATE (118-58-1)

LD50 oral rat: 3031-3339 mg/kg body weight (EU Method B.1: Acute Toxicity (Oral), Rat, Male/female, Read-across, Oral, 14 day(s))
 LD50 dermal rabbit: > 2000 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male/female, Read-across, Dermal, 14 day(s))
 ATE US (oral): 2200 mg/kg body weight

COUMARIN (91-64-5)

LD50 oral rat: 293 mg/kg body weight (Rat, Male/female, Experimental value, Oral)
 ATE US (oral): 293 mg/kg body weight

HELIONAL (1205-17-0)

ATE US (oral): 3562 mg/kg body weight

HEXYL CINNAMAL (101-86-0)

ATE US (oral): 3100 mg/kg body weight

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)

ATE US (oral): 1000 mg/kg body weight
 ATE US (dermal): 7940 mg/kg body weight

ACETYL CEDRENE (32388-55-9)

LD50 oral rat: > 2000 mg/kg (Rat, Oral)
 LD50 dermal rabbit: > 2000 mg/kg (Rabbit, Dermal)
 ATE US (oral): 4500 mg/kg body weight

Aquatic Toxicity / Environmental Hazard

GERANIOL (106-24-1)

LC50 - Fish [1]: 22 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
 EC50 - Crustacea [1]: 10.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
 EC50 algae: 13.1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

LINALOOL (78-70-6)

LC50 - Fish [1]: 27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
 EC50 - Crustacea [1]: 59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
 EC50 algae: 156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

LINALYL ACETATE (115-95-7)

LC50 - Fish [1]: 11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio)
 EC50 - Crustacea [1]: 15 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)

BENZYL BENZOATE (120-51-4)

LC50 - Fish [1]: 2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
 EC50 - Crustacea [1]: 3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

BENZYL SALICYLATE (118-58-1)

LC50 - Fish [1]: 1.03 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, GLP)
 EC50 - Crustacea [1]: 1.16 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

COUMARIN (91-64-5)

LC50 - Fish [1]: 2.94 mg/l (96 h, Pisces, QSAR)
 LC50 - Crustacea [1]: 24.3–36.9 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)

EC50 - Crustacea [1]: 0.61 mg/l
 NOEC chronic fish: 0.035 mg/l

Toxicological Information: Ingredient Data

Persistence and degradability

GERANIOL (106-24-1)

Persistence and degradability: Readily biodegradable in water.

LINALOOL (78-70-6)

Persistence and degradability: Readily biodegradable in water.

LINALYL ACETATE (115-95-7)

Persistence and degradability: Readily biodegradable in water.

BENZYL BENZOATE (120-51-4)

Persistence and degradability: Readily biodegradable in water.

AMYL SALICYLATE (2050-08-0)

Persistence and degradability: Biodegradability in water: no data available.

BENZYL SALICYLATE (118-58-1)

Persistence and degradability: Readily biodegradable in water.

COUMARIN (91-64-5)

Persistence and degradability: Readily biodegradable in water.

HELIONAL (1205-17-0)

Persistence and degradability: Biodegradability in water: no data available.

ACETYL CEDRENE (32388-55-9)

Persistence and degradability: Biodegradability in water: no data available.

Bioaccumulative potential

GERANIOL (106-24-1)

Partition coefficient n-octanol/water (Log Pow): 2.6

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4)

LINALOOL (78-70-6)

Partition coefficient n-octanol/water (Log Pow): 2.84

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4)

LINALYL ACETATE (115-95-7)

Partition coefficient n-octanol/water (Log Pow): 3.93

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4)

BENZYL BENZOATE (120-51-4)

BCF - Fish [1]: 2.286

Partition coefficient n-octanol/water (Log Pow): 3.97

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4)

AMYL SALICYLATE (2050-08-0)

Partition coefficient n-octanol/water (Log Pow): 4.57

Bioaccumulative potential: Potential for bioaccumulation (4 < Log Kow < 5)

BENZYL SALICYLATE (118-58-1)

BCF - Fish [1]: 1170

Partition coefficient n-octanol/water (Log Pow): 4

Bioaccumulative potential: Potential for bioaccumulation (500 < BCF < 5000)

COUMARIN (91-64-5)

Partition coefficient n-octanol/water (Log Pow): 1.39

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4)

HELIONAL (1205-17-0)

Partition coefficient n-octanol/water (Log Pow): 2.4

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4)

ACETYL CEDRENE (32388-55-9)

Bioaccumulative potential: No bioaccumulation data available.

Toxicological Information: Ingredient Data

Soil mobility

GERANIOL (106-24-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc): 1.85
Ecology - soil: Highly mobile in soil.

LINALOOL (78-70-6)

Surface tension: 8.3 mN/m (20 °C)
Ecology - soil: No test data on mobility of the substance available.

LINALYL ACETATE (115-95-7)

Ecology - soil: Adsorbs into the soil.

BENZYL BENZOATE (120-51-4)

Surface tension: 0.027 N/m (21 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc): 3.8
Ecology - soil: Low potential for mobility in soil.

AMYL SALICYLATE (2050-08-0)

Ecology - soil: No test data on mobility of the substance available.

BENZYL SALICYLATE (118-58-1)

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

COUMARIN (91-64-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc): 1.63
Ecology - soil: Highly mobile in soil.

Section 13

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	Do not re-use empty containers.

Section 14

Transport Information

Department of Transportation (DOT)

In accordance with DOT - Not regulated

Regulatory Information

This product has been classified in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200. Applicable federal, state, and local regulations should be consulted by the user.

TSCA Inventory Status:

All components are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Name	CAS	%
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta	1222-05-5	1-5%

Other Information

Revision History

Version	Date	Description
1	08/04/2026	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.