

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 6, 2026

24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

SECTION 1

Identification

Product Name	Barometer
Product Code / SKU	P-O-66
Product Type	Fragrance Oil Blend
Collection	Observatory
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
Reproductive Toxicity	2
Skin Irritation	2
Skin Sensitization	1
Eye Damage/Irritation	2

Signal Word: DANGER

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.

Hazard-Determining Components of Labeling

ISO E SUPER

Linalool

Methyl Ionone Gamma

Hexyl Cinnamic Aldehyde

Citronellol

Cashmeran

Aldehyde C-16

Damascone Alpha

Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see supplemental first aid instruction on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local regulations.

Additional Hazard Information

NFPA Ratings (Scale 0–4)

Health: 1

Fire: 1

Reactivity: 0

HMIS Ratings (Scale 0–4)

Health: 1

Fire: 1

Reactivity: 0

Other Hazards

PBT: Not applicable.

vPvB: Not applicable.

Hazards Not Otherwise Classified (HNOC):

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communication Standard.

GHS Pictograms



Composition / Information on Ingredients

Substance Type

Mixture – Proprietary Fragrance Oil Blend

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

Ingredient Name	CAS No.	Classification	%
Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	68155-66-8	Skin Irrit. 2 (H315), Skin Sens. 1 (H317)	>2.5–<10%
Benzyl Benzoate	120-51-4	Acute Tox. 4 Oral (H302)	>2.5%
Linalool	78-70-6	Skin Sens. 1B (H317), Flam. Liq. 4 (H227)	≥1–≤2.5%
α-Dimethyl-β-cyclohexene-1-propanal	18479-58-8	Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Flam. Liq. 4 (H227)	>2.5%
Dihydromyrcenol	67674-46-8	Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Flam. Liq. 4 (H227)	>2.5%
Limonene Terpenes	68917-35-5	Flam. Liq. 3 (H226), Asp. Haz. 1 (H304), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)	≥1–≤2.5%
Grapefruit Oil	8016-20-4	Flam. Liq. 3 (H226), Asp. Haz. 1 (H304), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)	>2.5%
Patchouli Oil	8014-09-3	Asp. Haz. 1 (H304)	>2.5%
Ethyl Linalool	10339-55-6	Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Flam. Liq. 4 (H227)	>2.5%
Bergamot Oil	89957-91-5	Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Skin Sens. 1 (H317), Flam. Liq. 4 (H227)	≥1–≤2.5%
Linalyl Acetate	115-95-7	Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Flam. Liq. 4 (H227)	>2.5%
Benzyl Salicylate	118-58-1	Skin Sens. 1B (H317)	≥0.1–<1%
Cedrol	77-53-2	Skin Sens. 1B (H317)	≥0.1–<1%
LILIAL	80-54-6	Repr. 1B (H360), Flam. Liq. 4 (H227)	≥0.1–<3%
Vetiver Oil	8016-96-4	Skin Sens. 1 (H317)	≥0.1–<1%
Geraniol	32210-23-4	Skin Sens. 1 (H317)	≥0.1–<1%
Anisyl Propanal (Canthoxal)	5462-06-6	Skin Sens. 1 (H317)	≥0.1–<1%
Labdanum Resinoid	8016-26-0	Skin Sens. 1 (H317)	≥0.1–<1%
Citronellol	106-22-9	Skin Irrit. 2 (H315), Skin Sens. 1 (H317)	≥0.1–<1%
Coumarin	91-64-5	Acute Tox. 4 Oral (H302), Skin Sens. 1 (H317)	≥0.1–<1%
Hexyl Cinnamic Aldehyde	101-86-0	Skin Sens. 1 (H317)	≥0.1–<1%
Cardamom Oil	8000-66-6	Flam. Liq. 3 (H226), Asp. Haz. 1 (H304), Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Skin Sens. 1 (H317)	≥0.1–<1%
Scentenal	86803-90-9	Skin Sens. 1 (H317)	≥0.1–<1%

First Aid Measures

Description of First Aid Measures

First-aid measures general:

Immediately remove any clothing soiled by the product.

First-aid measures after inhalation:

Supply fresh air and seek medical attention if symptoms occur. In case of unconsciousness, place the patient in a stable side position for transportation.

First-aid measures after skin contact:

Immediately wash with water and soap and rinse thoroughly.

First-aid measures after eye contact:

Rinse opened eye for several minutes under running water.

First-aid measures after ingestion:

If symptoms persist, consult a doctor.

Most Important Symptoms and Effects (Acute and Delayed)

No further relevant information available.

Immediate Medical Attention and Special Treatment, if Necessary

No further relevant information available.

Fire Fighting Measures

Suitable (and Unsuitable) Extinguishing Media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

Specific Hazards Arising from the Chemical

No further relevant information available.

Special Protective Equipment and Precautions for Firefighters

Advice for firefighters:

No further relevant information available.

Protective equipment:

No special measures required.

Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions, protective equipment and emergency procedures:

Not required.

Environmental Precautions

Do not allow to enter sewers, surface or ground water.

Methods and Material for Containment and Cleaning Up

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Disposal:

Dispose contaminated material as waste according to Section 13.

Additional information:

Ensure adequate ventilation.

Reference to Other Sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals (PAC)

Chemical | PAC-1 | PAC-2 | PAC-3

Isopropyl Myristate (110-27-0) | 81 mg/m³ | 900 mg/m³ | 5,400 mg/m³

Benzyl Benzoate (120-51-4) | 5.1 mg/m³ | 56 mg/m³ | 340 mg/m³

Coumarin (91-64-5) | 0.88 mg/m³ | 9.7 mg/m³ | 58 mg/m³

Handling and Storage

Precautions for Safe Handling

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep respiratory protective device available.

Conditions for Safe Storage, Including Any Incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a tightly sealed container in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Specific end use(s):

No further relevant information available.

Exposure Controls / Personal Protection

Control Parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists that were valid during the creation were used as basis.

Exposure Controls

Appropriate engineering controls

No further data; see Section 7.

Personal Protective Equipment

General protective and hygiene measures

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Hand protection

Protective gloves.
The glove material has to be impermeable and resistant to the product/substance/preparation.
Due to missing tests no recommendation to the glove material can be given for the product/preparation/chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and therefore has to be checked prior to the application.

Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Goggles recommended during refilling.

Physical and Chemical Properties

Physical state	Liquid
Color	Clear yellow to amber
Odor	Characteristic
Odor threshold	Not determined
Melting point / Melting range	Undetermined
Boiling point / boiling range	193°C (379.4°F)
Flammability	Not applicable
Explosion limits – Lower	Not determined
Explosion limits – Upper	Not determined
Flash point	>93°C (>199.4°F)
Decomposition temperature	Not determined
pH-value	Not determined
Viscosity	Not determined
Solubility / Miscibility with Water	Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density at 20°C (68°F)	0.88335 g/cm ³ (7.3891 lbs/gal)
Relative vapor density	Not determined
Particle characteristics	Not applicable

Stability and Reactivity

Reactivity

No further relevant information available.

Chemical Stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of Hazardous Reactions

No dangerous reactions known.

Conditions to Avoid

No further relevant information available.

Incompatible Materials

No further relevant information available.

Hazardous Decomposition Products

No dangerous decomposition products known.

Toxicological Information

Information on toxicological effects

Acute toxicity

ATE (Acute Toxicity Estimate)

Component	Oral LD50	Dermal LD50
Benzyl Benzoate (120-51-4)	790 mg/kg (rat)	4,000 mg/kg (rabbit)
Linalool (78-70-6)	2,790 mg/kg (rat)	5,610 mg/kg (rabbit)
Vertenex (32210-23-4)	5,000 mg/kg (rat)	—
Coumarin (91-64-5)	293 mg/kg (rat)	—

Primary irritant effect

On the skin: Irritant to skin and mucous membranes.

On the eye: No irritating effect.

Sensitization

Sensitization possible through skin contact.

Additional toxicological information

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Interactive effects

No interactive effects between components are known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance	Classification
Coumarin (91-64-5)	3
Eugenol (97-53-0)	3

NTP (National Toxicology Program)

Substance	Classification
Oranger Crystals (93-08-3)	R

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Alternative sources for toxicological information

No non-standard sources for toxicological information were used.

Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and Degradability

No further relevant information available.

Bioaccumulative Potential

No further relevant information available.

Mobility in Soil

No further relevant information available.

Results of PBT and vPvB Assessment

PBT: Not applicable.

vPvB: Not applicable.

Other Adverse Effects

Additional Ecological Information

General Notes

Water hazard class 3 (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Disposal Considerations

Waste Treatment Methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned Packaging

Recommendation:

Disposal must be made according to official regulations.

Transport Information

UN Number

DOT, IMDG, IATA: Not regulated

UN Proper Shipping Name

DOT, IMDG, IATA: Not regulated

Transport Hazard Class(es)

DOT, ADR, IMDG, IATA: Not regulated

Packing Group

DOT, IMDG, IATA: Not regulated

Environmental Hazards

Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Special Precautions for User

Not applicable

UN Model Regulation

Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Section 355 (Extremely Hazardous Substances)

None of the ingredients is listed.

Section 313 (Specific Toxic Chemical Listings)

CAS No. | Substance
122-05-5 | Galaxolide
103-60-6 | Phenoxy Ethyl Iso Butyrate

TSCA (Toxic Substances Control Act)

All substances are active or exempt.

Hazardous Air Pollutants

CAS No. | Substance
93-08-3 | Oranger Crystals

Proposition 65

Chemicals known to cause cancer:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)
CAS No. | Substance | Classification
103-23-1 | Dioctyl Adipate | C
TLV (Threshold Limit Value)
CAS No. | Substance | Value
140-11-4 | Benzyl Acetate | 44
NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Other Information

Revision History

Version	Date	Description
1	08/06/2026	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.