

# 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 18, 2026

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### 24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

#### SECTION 1

## Identification

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|                    |                                                                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name       | Loppia                                                                                                                                                                                  |
| Product Code / SKU | P-CO-76                                                                                                                                                                                 |
| Product Type       | Fragrance Oil Blend                                                                                                                                                                     |
| Collection         | Coordinates                                                                                                                                                                             |
| Manufacturer       | <b>PLUME™</b><br><br>Louisiana, USA<br><a href="http://www.PlumeFragrance.com">www.PlumeFragrance.com</a><br><a href="mailto:contact@plumefragrance.com">contact@plumefragrance.com</a> |

#### 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        |
| Serious Eye Damage / Eye Irritation | 2        |
| Skin Sensitization                  | 1        |
| Reproductive Toxicity               | 2        |

**Signal Word: WARNING**

### Hazard Statements

|             |                                                      |
|-------------|------------------------------------------------------|
| <b>H315</b> | Causes skin irritation.                              |
| <b>H319</b> | Causes serious eye irritation.                       |
| <b>H317</b> | May cause an allergic skin reaction.                 |
| <b>H361</b> | Suspected of damaging fertility or the unborn child. |

### Precautionary Statements

|                       |                                                                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P201</b>           | Obtain special instructions before use.                                                                                                                                                    |
| <b>P202</b>           | Do not handle until all safety precautions have been read and understood.                                                                                                                  |
| <b>P261</b>           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                                                                           |
| <b>P264</b>           | Wash hands, forearms and face thoroughly after handling.                                                                                                                                   |
| <b>P272</b>           | Contaminated work clothing must not be allowed out of the workplace.                                                                                                                       |
| <b>P280</b>           | Wear protective gloves.                                                                                                                                                                    |
| <b>P302+P352</b>      | IF ON SKIN: Wash with plenty of water.                                                                                                                                                     |
| <b>P305+P351+P338</b> | IF IN EYES: 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. |
| <b>P308+P313</b>      | IF exposed or concerned: Get medical advice/attention.                                                                                                                                     |
| <b>P321</b>           | Specific treatment (see supplemental first aid instructions on this label).                                                                                                                |
| <b>P333+P313</b>      | If skin irritation or rash occurs: Get medical advice/attention.                                                                                                                           |
| <b>P337+P313</b>      | If eye irritation persists: Get medical advice/attention.                                                                                                                                  |
| <b>P362+P364</b>      | Take off contaminated clothing and wash it before reuse.                                                                                                                                   |
| <b>P405</b>           | Store locked up.                                                                                                                                                                           |
| <b>P501</b>           | Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.                        |

### GHS Pictograms



### Other Hazards

No additional information available

# Composition / Information on Ingredients

| Chemical Name                                                | CAS No.    | %      | GHS Classification                                                                |
|--------------------------------------------------------------|------------|--------|-----------------------------------------------------------------------------------|
| Iso E Super                                                  | 54464-57-2 | 10–30% | Skin Irrit. 2 (H315); Skin Sens. 1B (H317)                                        |
| Acetyl Cedrene                                               | 32388-55-9 | 10–30% | Skin Sens. 1B (H317)                                                              |
| 3-Methyl-6-(2,3,3-trimethyl-1-cyclopenten-1-yl)-2-hexen-1-ol | 65113-99-7 | 10–30% | Eye Irrit. 2A (H319)                                                              |
| Amyl Salicylate                                              | 2050-08-0  | 1–5%   | Acute Tox. 4 Oral (H302)                                                          |
| Dihydromyrcenol                                              | 18479-58-8 | 1–5%   | Flam. Liq. 4 (H227); Skin Irrit. 2 (H315); Eye Irrit. 2A (H319); STOT SE 3 (H336) |
| Vanillin                                                     | 121-33-5   | 1–5%   | Eye Irrit. 2B (H320)                                                              |
| Coumarin                                                     | 91-64-5    | 1–5%   | Acute Tox. 4 Oral (H302); Skin Sens. 1B (H317)                                    |
| Ethyl Vanillin                                               | 121-32-4   | 1–5%   | Eye Irrit. 2B (H320)                                                              |
| Methyl Dihydroxy-Dimethylbenzoate                            | 47077-47-5 | 1–5%   | Skin Sens. 1B (H317)                                                              |
| Citral                                                       | 5392-40-5  | 0.1–1% | Skin Irrit. 2 (H315); Eye Irrit. 2A (H319); Skin Sens. 1B (H317)                  |
| Damascenone Delta                                            | 57378-68-4 | 0.1–1% | Acute Tox. 4 Oral (H302); Skin Irrit. 2 (H315); Skin Sens. 1B (H317)              |
| p-Mentha-1,4-diene                                           | 99-85-4    | 0.1–1% | Flam. Liq. 3 (H226); Repr. 2 (H361); Asp. Tox. 1 (H304)                           |

## Section 4

## First Aid Measures

### Description of first aid measures

#### Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Eye exposure:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Skin exposure:

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

#### Ingestion:

If swallowed: Rinse mouth. Do not induce vomiting.

#### Most important symptoms and effects, both acute and delayed

None under normal conditions.

Irritation. May cause an allergic skin reaction. : Eye irritation.

None under normal conditions.

#### Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

## Fire Fighting Measures

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### **Extinguishing media**

Suitable media: Carbon dioxide, Dry chemical, Foam.

### **Special hazards arising from the substance or mixture**

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

### **Advice for fire fighters:**

In case of insufficient ventilation, wear suitable respiratory equipment.

## Accidental Release Measures

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### **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.

#### **Protective Equipment:**

Wear recommended personal protective equipment.

#### **Emergency Procedures:**

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

#### **Environmental Precautions**

Avoid release to the environment.

#### **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."

### **Methods and Material for Containment and Cleaning Up**

#### **For Containment:**

Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

#### **Methods for Cleaning Up:**

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

#### **Other Information:**

Dispose of materials or solid residues at an authorized site.

## Handling and Storage

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### **Precautions for Safe Handling**

Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

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**

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

Store locked up.

Always store product in container of same material as original container.

### **Specific end use(s)**

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

# Exposure Controls / Personal Protection

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**Control Parameters****Amyl Salicylate (CAS 2050-08-0)**

Not applicable.

**Citral (CAS 5392-40-5)**

ACGIH Local Name: Citral

ACGIH® TLV® TWA: 5 ppm (IFV – Inhalable fraction and vapor)

ACGIH Remark: TLV® Basis: Body weight effect; URT irritation; eye damage. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)

Regulatory Reference: ACGIH 2024

**Coumarin (CAS 91-64-5)**

Not applicable.

**Damascone Delta (CAS 57378-68-4)**

Not applicable.

**Dihydro Myrcenol (CAS 18479-58-8)**

Not applicable.

**Ethyl Vanillin (CAS 121-32-4)**

Not applicable.

**Iso E Super (CAS 54464-57-2)**

Not applicable.

**p-Mentha-1,4-diene (CAS 99-85-4)**

Not applicable.

**Methyl Dihydroxy-Dimethylbenzoate (CAS 4707-47-5)**

Not applicable.

**3-Methyl-6-(2,3,3-trimethyl-1-cyclopenten-1-yl)-2-hexen-1-ol (CAS 65113-99-7)**

Not applicable.

**Vanillin (CAS 121-33-5)**

Not applicable.

**Acetyl Cedrene (CAS 32388-55-9)**

Not applicable.

**Appropriate Engineering Controls**

**Appropriate Engineering Controls:** Ensure good ventilation of the work station.

**Environmental Exposure Controls:** Avoid release to the environment.

**Individual Protection Measures / Personal Protective Equipment**

**Personal Protective Equipment:** Wear recommended personal protective equipment.

**Hand Protection:** Protective gloves.

**Eye Protection:** Safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation, wear respiratory protection.

**Personal Protective Equipment Symbol(s):**

Use the gloves, safety goggles, and protective clothing PPE symbols shown on the supplier SDS.

# Physical and Chemical Properties

|                                                                 |                   |
|-----------------------------------------------------------------|-------------------|
| <b>Appearance</b>                                               | No data available |
| <b>Odour</b>                                                    | No data available |
| <b>Odour threshold</b>                                          | No data available |
| <b>Melting point / freezing point</b>                           | No data available |
| <b>Boiling point or initial boiling point and boiling range</b> | Not applicable    |
| <b>Flammability</b>                                             | No data available |
| <b>Lower and upper explosion limit</b>                          | No data available |
| <b>Flash point</b>                                              | >100°C (>212°F)   |
| <b>Auto-ignition temperature</b>                                | No data available |
| <b>Decomposition temperature</b>                                | Not applicable    |
| <b>pH</b>                                                       | No data available |
| <b>Kinematic viscosity</b>                                      | No data available |
| <b>Solubility</b>                                               | Not applicable    |
| <b>Partition coefficient: n-octanol/water (log value)</b>       | No data available |
| <b>Vapour pressure</b>                                          | No data available |
| <b>Density and/or relative density</b>                          | No data available |
| <b>Relative vapour density</b>                                  | No data available |
| <b>Particle characteristics</b>                                 | No data available |
| <b>Other Information:</b>                                       |                   |
| <b>Flash Point (Fahrenheit)</b>                                 | No data available |
| <b>Refractive Index @ 20C</b>                                   | No data available |
| <b>Color Range</b>                                              | No data available |
| <b>Calculated VOC</b>                                           | No data available |

# Stability and Reactivity

## Reactivity

Presents no significant reactivity hazard, by itself or in contact with water

## Chemical Stability

Stable under normal conditions.

## 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

Not expected.

# Toxicological Information

## Information on Toxicological Effects

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

## Acute Toxicity

Oral: No data available

Dermal: No data available

Inhalation: No data available

## Component Acute Toxicity Data

### Component | CAS No. | Toxicological Data

Amyl Salicylate | 2050-08-0 | LD50 oral rat: 4,100 mg/kg; LD50 dermal rabbit: >5,000 mg/kg; ATE US oral: 2,000 mg/kg

Coumarin | 91-64-5 | LD50 oral rat: 293 mg/kg; ATE US oral: 293 mg/kg

Damascone Delta | 57378-68-4 | ATE US oral: 1,400 mg/kg

Ethyl Vanillin | 121-32-4 | LD50 oral rat: >3,160 mg/kg; LD50 dermal rat: >2,000 mg/kg; ATE US oral: 3,000 mg/kg

p-Mentha-1,4-diene | 99-85-4 | ATE US oral: 3,650 mg/kg

Vanillin | 121-33-5 | LD50 oral rat: 3,300 mg/kg; LD50 dermal rat: >2,000 mg/kg; ATE US oral: 3,300 mg/kg; ATE US dermal: 2,600 mg/kg

Acetyl Cedrene | 32388-55-9 | LD50 oral rat: >2,000 mg/kg; LD50 dermal rabbit: >2,000 mg/kg; ATE US oral: 4,500 mg/kg

## Health Effect Classification

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** No data available.

**Carcinogenicity:** No data available.

Coumarin (CAS 91-64-5):

IARC Group 3 - Not classifiable

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**STOT - Single Exposure:** No data available.

Dihydro Myrcenol (CAS 18479-58-8):

STOT - Single Exposure: May cause drowsiness or dizziness.

**STOT - Repeated Exposure:** No data available.

**Aspiration Hazard:** 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.

# Ecological Information

## Ecotoxicity

### Ecology – General:

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

### Component | Ecotoxicity Data

**Coumarin** (CAS 91-64-5) | LC50 – Fish [1]: 2.94 mg/L (96 h, Pisces, QSAR); EC50 – Crustacea [1]: 24.3–36.9 mg/L (48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

**Ethyl Vanillin** (CAS 121-32-4) | LC50 – Fish [1]: 87.6 mg/L (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value); EC50 – Crustacea [1]: 36.79 mg/L (48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP); ErC50 algae: 120 mg/L (OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)

**Vanillin** (CAS 121-33-5) | LC50 – Fish [1]: 57 mg/L (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value); EC50 – Crustacea [1]: 36.79 mg/L (48 h, Daphnia sp., Acute Immobilisation Test, Static system, Fresh water, Experimental value, GLP); ErC50 algae: 120 mg/L (OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

## Persistence and Degradability

### Component | Persistence / Degradability

**Amyl Salicylate** (CAS 2050-08-0) | Biodegradability in water: No data available.

**Coumarin** (CAS 91-64-5) | Readily biodegradable in water.

**Dihydro Myrcenol** (CAS 18479-58-8) | Biodegradability in water: No data available.

**Ethyl Vanillin** (CAS 121-32-4) | Readily biodegradable in water. ThOD: 1.81 g O<sub>2</sub>/g substance; BOD (% of ThOD): 0.529 (5 days) (Literature study)

**Vanillin** (CAS 121-33-5) | Readily biodegradable in water.

**Acetyl Cedrene** (CAS 32388-55-9) | Biodegradability in water: No data available.

## Bioaccumulative Potential

### Component | Log Pow | Bioaccumulative Potential

**Amyl Salicylate** (CAS 2050-08-0) | 4.57 (estimated value) | Potential for bioaccumulation (4 ≥ Log Kow ≤ 5)

**Coumarin** (CAS 91-64-5) | 1.39 (QSAR, 25°C) | Low potential for bioaccumulation (Log Kow < 4)

**Dihydro Myrcenol** (CAS 18479-58-8) | 3.47 (estimated value) | Low potential for bioaccumulation (Log Kow < 4)

**Ethyl Vanillin** (CAS 121-32-4) | 1.58 (experimental value or similar to OECD 107, 25°C) | Low potential for bioaccumulation (Log Kow < 4)

**Vanillin** (CAS 121-33-5) | 1.17 (experimental, OECD 107, 25°C) | Low potential for bioaccumulation (Log Kow < 4)

**Acetyl Cedrene** (CAS 32388-55-9) | — | No bioaccumulation data available.

## Mobility in Soil

### Component | Mobility / Soil Data

**Amyl Salicylate** (CAS 2050-08-0) | No test/data on mobility of the substance available.

**Coumarin** (CAS 91-64-5) | Organic Carbon Normalized Adsorption Coefficient (Log Koc): 1.63 (QSAR). Ecology – soil: Highly mobile in soil.

**Dihydro Myrcenol** (CAS 18479-58-8) | No test/data on mobility of the substance available.

**Ethyl Vanillin** (CAS 121-32-4) | Log Koc: 3.092 (Koc; equivalent or similar to OECD 106, experimental value). Ecology – soil: Low potential for mobility in soil.

**Vanillin** (CAS 121-33-5) | Log Koc: 3.438 (experimental value). Ecology – soil: Low potential for mobility in soil.

## Other Adverse Effects

No additional information available.

# Disposal Considerations

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**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

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**Department of Transportation (DOT)**

Transport Information Supplier Data

UN Number UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super); Acetyl Cedrene)

Transport Hazard Class 9

Packing Group III – Minor Danger

Hazard Label 9 – Class 9 (Miscellaneous dangerous materials)

DOT Packaging Non-Bulk 203

DOT Packaging Bulk 241

DOT Symbols G – Identifies PSN requiring a technical name

**DOT Special Provisions**

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 to the hazardous materials specified for this provision.

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 hazardous substance.

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 when the packaging or transport unit is closed.

IB3, T4, TP1 – Applicable DOT bulk/IBC/tank special provisions per 49 CFR 172.102.

**Additional DOT Information**

DOT Packaging Exceptions: 155

DOT Quantity Limitations – Passenger Aircraft/Rail: No Limit

DOT Quantity Limitations – Cargo Aircraft Only: 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.

Emergency Response Guide (ERG) Number: 171

Other Information: No supplementary information available.

# Regulatory Information

**OSHA Hazard Communication Standard**

This product has been classified in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200 (HCS 2024).

**TSCA Inventory Status**

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

**SARA Title III — Section 313**

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

|                                                                            | 123-35-3  |       |
|----------------------------------------------------------------------------|-----------|-------|
| Chemical Name                                                              | CAS No.   | %     |
| 1-(3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran | 1222-05-5 | 5–10% |

# Other Information

**Revision History**

| Version | Date      | Description     |
|---------|-----------|-----------------|
| 1       | 08/182026 | 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.