

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

24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

SECTION 1

Identification

Product Name	White Mallow
Product Code / SKU	P-O-2
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 performance 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

Skin Sensitization

Signal Word: WARNING

Category

1

Hazard Statements

H317 May cause an allergic skin reaction.

Hazard-Determining Components of Labeling

Exaltolide
Cashmeran
Cinnamic Aldehyde
Coumarin
Hydroxycitronellal
Heliotropine

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
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.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional Hazard Information

HMIS Ratings (Scale 0–4)

Health: 1
Fire: 1
Reactivity: 0

NFPA 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



SECTION 3

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	%
Exaltolide	106-02-5	Skin Sens. 1 (H317)	>2.5–≤10%
Vanillin	121-33-5	Acute Tox. 4 Oral (H302); Eye Irrit. 2A (H319)	>2.5–≤10%
Fixolide	1506-02-1	Acute Tox. 3 Oral (H301)	≤2.5%
Cashmeran	33704-61-9	Skin Irrit. 2 (H315); Eye Irrit. 2A (H319); Skin Sens. 1 (H317)	≥1–≤2.5%
Coumarin	91-64-5	Acute Tox. 3 Oral (H301); Skin Sens. 1 (H317)	≥0.1–<1%
Hydroxycitronellal	107-75-5	Eye Irrit. 2A (H319); Skin Sens. 1 (H317)	≥0.1–<1%
Heliotropine	120-57-0	Skin Sens. 1 (H317)	≥0.1–<1%
Cinnamic Aldehyde	104-55-2	Skin Sens. 1A (H317)	≥0.01–<0.1%

Section 4

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

Special hazards arising from the substance or mixture:

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.

Section 6

Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures:

Not required.

Environmental Precautions

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

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.

Additional 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

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

Anisic Aldehyde (123-11-5) 21 mg/m³ 230 mg/m³ 300 mg/m³

Benzaldehyde (100-52-7) 4 ppm 43 mg/m³ 260 mg/m³

Section 7

Handling and Storage

Precautions for Safe Handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information About Protection Against Explosions and Fires

No special measures required.

Conditions for Safe Storage, Including Any Incompatibilities

Storage:

Store in tightly sealed containers in a cool, dry place that is well ventilated. Keep away from heat, sparks, 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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

Component | Type | Exposure Limit

Vanillin (CAS 121-33-5) | WEEL – Long-term value | 10 mg/m³

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 Hygienic Measures

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Breathing Equipment

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.

Protection of Hands

Protective gloves.

Material of 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 the degradation.

Material of Gloves (continued)

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

Appearance	Liquid
Color	Clear colorless to pale yellow
Odor	Characteristic
Odor threshold	Not determined
Melting point / freezing point	Undetermined
Boiling point / boiling range	193°C (379.4°F)
Flammability	Not applicable
Lower explosion limit	Not determined
Upper explosion limit	Not determined
Flash point	>93.3°C (>199.9°F)
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
pH	Not determined
Viscosity	Not determined
Kinematic viscosity	Not determined
Solubility / miscibility with water	Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	Not determined
Vapor pressure	Not determined
Density @ 20°C (68°F)	0.89706 g/cm ³ (7.48597 lbs/gal)
Relative density	Not determined
Relative vapor density	Not determined
Particle characteristics	Not applicable
Ignition temperature	Product is not self-igniting
Danger of explosion	Product does not present an explosion hazard
Solvent content	—
VOC content	0.00% / 0.0 g/L (0.00 lb/gal)
Solids content	8.9%
Change in condition / Evaporation rate	Not determined

Stability and Reactivity

Reactivity

No further relevant information available.

Chemical Stability

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 — LD/LC50 Values Relevant for Classification

Component	Route	LD50
ATE (Acute Toxicity Estimate)	Oral	4,440 mg/kg
Vanillin (CAS 121-33-5)	Oral	1,580 mg/kg (rat)
Coumarin (CAS 91-64-5)	Oral	293 mg/kg (rat)
Heliotropine (CAS 120-57-0)	Oral	2,700 mg/kg (rat)
Cinnamic Aldehyde (CAS 104-55-2)	Oral	2,220 mg/kg (rat)

Primary Irritant Effect

On the skin: No irritant effect.

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

Agency	Substance	Classification
IARC (International Agency for Research on Cancer)	Coumarin (CAS 91-64-5)	3
NTP (National Toxicology Program)	None of the ingredients is listed.	—
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 2 (Self-assessment): 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.

Section 13

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.

Section 14

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

Not regulated.

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)

Chemical | CAS No.
Galaxolide | 1222-05-5

TSCA (Toxic Substances Control Act)

All substances are active or exempt.

Hazardous Air Pollutants

None of the ingredients is listed.

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):
None of the ingredients is listed.

TLV (Threshold Limit Value):
None of the ingredients is listed.

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	08/18/2026	Initial release

Disclaimer

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