

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).

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24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

SECTION 1

Identification

Product Name	Blackberry & Aged Oak
Product Code / SKU	P-AD-70
Product Type	Fragrance Oil Blend
Collection	After DarK
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 of the substance or mixture

GHS US classification

Flammable liquid, Category 4

Serious eye damage/eye irritation, Category 2A

Skin sensitization, Category 1

H317 May cause an allergic skin reaction.

H227 Combustible liquid

H319 Causes serious eye irritation.

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US): WARNING

Hazard statements (GHS US):

H227 - Combustible liquid

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary statements (GHS US)

H227 - Combustible liquid

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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, protective clothing, eye protection, face protection, and hearing protection.

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.

P370+P378 - In case of fire: Use appropriate media to extinguish.

P403 - Store in a well-ventilated place.

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

Composition/Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Name	Product Identifier	%	GHS US classification
BENZYL BENZOATE	CAS No. 120-51-4	10–30	Acute Tox. 4 (Oral), H302
DIETHYL MALONATE	CAS No. 105-53-3	10–30	Flam. Liq. 4, H227; Eye Irrit. 2A, H319
HEXYL CINNAMAL	CAS No. 101-86-0	5–10	Skin Sens. 1B, H317
LINALOOL	CAS No. 78-70-6	1–5	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317
AMYL CINNAMIC ALDEHYDE	CAS No. 122-40-7	1–5	Skin Sens. 1B, H317
ALLYL CAPROATE	CAS No. 123-68-2	1–5	Flam. Liq. 4, H227; Acute Tox. 3 (Oral), H301; Acute Tox. 3 (Dermal), H311; Acute Tox. 2 (Inhalation:dust,mist), H330
LIMONENE	CAS No. 5989-27-5	1–5	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Asp. Tox. 1, H304

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: 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

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: Combustible liquid.

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.

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 in a well-ventilated place. Keep cool.

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

In case of insufficient ventilation, wear suitable respiratory equipment

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	174 °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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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

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	No data available
Acute Toxicity (Oral)	No data available
Acute Toxicity (Dermal)	No data available
Acute Toxicity (Inhalation)	No data available
Skin Corrosion / Irritation	No data available
Serious Eye Damage / Irritation	No data available
Respiratory or Skin Sensitization	May cause an allergic skin reaction
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
STOT — Single Exposure	No data available
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.

Acute Toxicity

DIETHYL MALONATE (105-53-3)

LD50 oral rat: 15,794 mg/kg body weight
LD50 dermal rabbit: > 19,690 mg/kg body weight

HEXYL CINNAMAL (101-86-0)

ATE US (oral): 3,100 mg/kg body weight

LIMONENE (5989-27-5)

LD50 oral rat: > 2,000 mg/kg body weight
LD50 dermal rabbit: > 5,000 mg/kg body weight

LINALOOL (78-70-6)

LD50 oral rat: 2,790 mg/kg body weight
LD50 dermal rabbit: 5,610 mg/kg body weight

BENZYL BENZOATE (120-51-4)

LD50 oral rat: > 2,000 mg/kg body weight
LD50 dermal rabbit: > 2,000 mg/kg body weight

ALLYL CAPROATE (123-68-2)

LD50 oral rat: 218 mg/kg body weight
LD50 dermal rabbit: 820 mg/kg body weight

AMYL CINNAMIC ALDEHYDE (122-40-7)

LD50 oral rat: 3,730 mg/kg body weight
LD50 dermal rabbit: > 2,000 mg/kg body weight

Ecological Information

Toxicity

Ecology – General

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

LIMONENE (5989-27-5)

LC50 Fish: 720 µg/L
EC50 Crustacea: 0.36 mg/L

LINALOOL (78-70-6)

LC50 Fish: 27.8 mg/L
EC50 Crustacea: 59 mg/L
ErC50 Algae: 156.7 mg/L

BENZYL BENZOATE (120-51-4)

LC50 Fish: 2.32 mg/L
EC50 Crustacea: 3.09 mg/L

ALLYL CAPROATE (123-68-2)

EC50 Crustacea: 2 mg/L
ErC50 Algae: > 4.6 mg/L

AMYL CINNAMIC ALDEHYDE (122-40-7)

LC50 Fish: 3 mg/L
EC50 Crustacea: 1.1 mg/L

DIETHYL MALONATE (105-53-3)

LC50 Fish: 11.8 mg/L
EC50 Crustacea: 202.3 mg/L

Persistence and degradability

LIMONENE (5989-27-5)

Readily biodegradable in water.
ThOD: 3.29 g O₂/g substance

LINALOOL (78-70-6)

Readily biodegradable in water.

BENZYL BENZOATE (120-51-4)

Readily biodegradable in water.

ALLYL CAPROATE (123-68-2)

Readily biodegradable in water.

AMYL CINNAMIC ALDEHYDE (122-40-7)

Readily biodegradable in water.

DIETHYL MALONATE (105-53-3)

Readily biodegradable in water.

Bioaccumulative potential

LIMONENE (5989-27-5)

Log Pow: 4.38–4.83
Potential for bioaccumulation.

LINALOOL (78-70-6)

Log Pow: 2.97
Low potential for bioaccumulation.

BENZYL BENZOATE (120-51-4)

BCF (Fish): 2.286
Log Pow: 3.97
Low potential for bioaccumulation.

AMYL CINNAMIC ALDEHYDE (122-40-7)

Log Pow: 4.2
Potential for bioaccumulation.

Mobility in soil

LIMONENE (5989-27-5)

Log Koc: 3.4
Low mobility in soil.

LINALOOL (78-70-6)

Log Koc: 2.6
Moderately mobile in soil.

BENZYL BENZOATE (120-51-4)

Log Koc: 3.8
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	Do not re-use empty containers.

Transport Information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT)

UN3082 Environmentally hazardous substances, liquid, n.o.s. (BENZYL BENZOATE), 9, III

UN No. (DOT): UN3082

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

Class (DOT): 9 – Class 9 (Miscellaneous hazardous materials)

Packing Group (DOT): III – Minor Danger

Hazard Label (DOT): 9



Transport Information

Department of Transportation (DOT)

DOT Packaging Non-Bulk (49 CFR 173.xxx): 203

DOT Packaging Bulk (49 CFR 173.xxx): 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 packaged or the inner 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.

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following:

Degree of filling = $97 / (1 + \alpha (tr - tf))$

Where: tr = the maximum mean bulk temperature during transport; tf = the temperature in degrees Celsius of the liquid during filling.

TP29 - A portable tank having a minimum test pressure of 1.5 bar or less (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): 155

DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27): No Limit

DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75): 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.

Regulatory Information

15.1. US Federal Regulations

No additional information available.

Chemical(s) 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.

Chemical Name	CAS No.	Concentration
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	08/05/2026	Initial release

Disclaimer

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