

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 26, 2026

24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

SECTION 1

Identification

Product Name	Outside Edinburgh
Product Code / SKU	P-CO-48
Product Type	Fragrance Oil Blend
Collection	Coordinates
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 1

Skin sensitization, Category 1

H317 May cause an allergic skin reaction.

H224 Extremely flammable liquid and vapor

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US): Danger

Hazard statements (GHS US): **H224** Extremely flammable liquid and vapor; **H317** May cause an allergic skin reaction

Precautionary statements (GHS US)

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

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash hands 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.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P321 Specific treatment (see supplemental first aid on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local, regional, national, and 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
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)	(CAS-No.) 54464-57-2	30 – 70	Skin Irrit. 2, H315; Skin Sens. 1B, H317
EUGENOL	(CAS-No.) 97-53-0	5 – 10	Eye Irrit. 2A, H319; Skin Sens. 1B, H317
DIHYDRO MYRCENOL	(CAS-No.) 18479-58-8	5 – 10	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336
METHYL CINNAMIC ALDEHYDE	(CAS-No.) 101-39-3	1 – 5	Skin Sens. 1B, H317
LINALYL ACETATE	(CAS-No.) 115-95-7	1 – 5	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; 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
ETHYL VANILLIN	(CAS-No.) 121-32-4	1 – 5	Eye Irrit. 2B, H320
CASHMERAN	(CAS-No.) 33704-61-9	1 – 5	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317
2-ethyl-3-hydroxypryan-4-one	(CAS-No.) 4940-11-8	1 – 5	Acute Tox. 4 (Oral), H302
CARYOPHYLLENE BETA	(CAS-No.) 87-44-5	1 – 5	Skin Sens. 1B, H317; Asp. Tox. 1, H304
LIMONENE	(CAS-No.) 5989-27-5	1 – 5	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Asp. Tox. 1, H304
CINNAMAL	(CAS-No.) 104-55-2	0.1 – 1	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1A, H317
PIMENTO BERRY OIL	(CAS-No.) 8006-77-7	0.1 – 1	Eye Irrit. 2A, H319; Skin Sens. 1, H317; Muta. 2, H341; Carc. 2, H351; Asp. Tox. 1, H304
p-Mentha-1,4-diene	(CAS-No.) 99-85-4	0.1 – 1	Flam. Liq. 3, H226; Repr. 2, H361d; Asp. Tox. 1, H304
Methylcyclopentenolone	(CAS-No.) 80-71-7	0.1 – 1	Acute Tox. 4 (Oral), H302; Skin Sens. 1, H317

SECTION 4:

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: Eye irritation. If irritation persists: Get medical advice/attention.

First-aid measures after ingestion: None under normal conditions.

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

5.1 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.

5.2 Specific hazards arising from the chemical

Fire hazard: Combustible liquid.

Explosion hazard: No direct explosion hazard.

5.3 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: : Ground/bond container and receiving equipment.

Storage conditions: : Ground/bond container and receiving equipment.

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

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.

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	≈195.6°F
Relative evaporation rate (butyl acetate=1)	No data available
Flammability	Not applicable
Vapor pressure	No data available
Relative vapor density at 68°F	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

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

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

10.5 Incompatible materials

No additional information available

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.1 Information on toxicological effects

Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (inhalation)	No data available
EUGENOL (97-53-0)	
ATE US (oral)	2500 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
METHYLCYCLOPENTENOLONE (80-71-7)	
ATE US (oral)	1067 mg/kg body weight
2-ethyl-3-hydroxy-4-pyran-4-one (4494-11-8)	
LD50 oral rat	1150 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
ATE US (oral)	1150 mg/kg body weight
ETHYL VANILLIN (121-32-4)	
LD50 oral rat	> 3160 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	3000 mg/kg body weight
p-Mentha-1,4-diene (99-85-4)	
ATE US (oral)	3650 mg/kg body weight
LIMONENE (5989-27-5)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)
PIMENTO BERRY OIL (8006-77-7)	
ATE US (oral)	3740 mg/kg body weight
ATE US (dermal)	2930 mg/kg body weight
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	Suspected of causing cancer.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Viscosity, kinematic	No data available
EUGENOL (97-53-0)	
IARC group	3 - Not classifiable
LIMONENE (5989-27-5)	
IARC group	3 - Not classifiable
DIHYDRO MYRCENOL (18479-58-8)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	No data available
LINALOOL (78-70-6)	
NOAEL (dermal, rat, repeated, 90 days)	250 mg/kg body weight Animal: rat; Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity; 90-Day Study)
Aspiration hazard	No data available
Viscosity, kinematic	No data available
Symptoms/effects after inhalation	None under normal conditions.
Symptoms/effects after skin	Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye	Eye irritation.
Symptoms/effects after ingestion	None under normal conditions.

Ecological Information

12.1 Toxicity

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

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)
ERC50 algae 156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

ETHYL VANILLIN (121-32-4)

LC50 - Fish [1] 87.6 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1] 36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
ERC50 algae 120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)

LIMONENE (5989-27-5)

LC50 - Fish [1] 720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1] 0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

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)

12.2 Persistence and degradability

LINALOOL (78-70-6)

Persistence and degradability: Readily biodegradable in water.

DIHYDRO MYRCENOL (18479-58-8)

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

2-ethyl-3-hydroxy-4-pyrone (4494-11-8)

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

ETHYL VANILLIN (121-32-4)

Persistence and degradability: Readily biodegradable in water.
ThOD: 1.81 g O₂/g substance
BOD (% of ThOD): 0.529 (5 day(s), Literature study)

LIMONENE (5989-27-5)

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

LINALYL ACETATE (115-95-7)

Persistence and degradability: Readily biodegradable in water.

12.3 Bioaccumulative potential

LINALOOL (78-70-6)

Partition coefficient n-octanol/water (Log Pow): 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

DIHYDRO MYRCENOL (18479-58-8)

Partition coefficient n-octanol/water (Log Pow): 3.47 (Estimated value)
Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

2-ethyl-3-hydroxy-4-pyrone (4494-11-8)

Bioaccumulative potential: No bioaccumulation data available.

ETHYL VANILLIN (121-32-4)

Partition coefficient n-octanol/water (Log Pow): 1.58 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

LIMONENE (5989-27-5)

BCF - Fish [1]: 864.4-1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow): 4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
Bioaccumulative potential: Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).

LINALYL ACETATE (115-95-7)

Partition coefficient n-octanol/water (Log Pow): 3.93 (Experimental value)
Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

12.4 Mobility in soil

LINALOOL (78-70-6)

Surface tension: 8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension)
Ecology - soil: No test(data on mobility of the substance available).

DIHYDRO MYRCENOL (18479-58-8)

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

ETHYL VANILLIN (121-32-4)

Organic Carbon Normalized Adsorption Coefficient (Log Koc): 3.092 (log Koc, Equivalent or similar to OECD 106, Experimental value)
Ecology - soil: Low potential for mobility in soil.

LIMONENE (5989-27-5)

Ecology - soil: Adsorbs into the soil.

LINALYL ACETATE (115-95-7)

Ecology - soil: Adsorbs into the soil.

12.5 Other adverse effects

No data available.

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	Flammable vapors may accumulate in the container. 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. (1-(1,2,3,4,5,6,7,8-Octahydro- 2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)), 9, III

UN No. (DOT): UN3082

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

Class (DOT): 9

Packing group (DOT): III

Label (DOT): 9 Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.240): 203

DOT Packaging Bulk (49 CFR 173.241/173.242): 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 'Environmentally hazardous substances, liquid, n.o.s.' as appropriate. In addition, for materials, this proper shipping name must be accompanied by the technical name(s) of the hazardous material.

DOT Packaging Exceptions (49 CFR 173.xxx): No Limit

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): No Limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 173.27): 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

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR 372.38(a) 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.

Section 16

Other Information

Revision History

Version	Date	Description
1	08/26/2026	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.

