

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 4, 2026

24-HOUR EMERGENCY CONTACT

CHEMTREC 1-800-424-9300

Contract ID: CCN1026268

SECTION 1

Identification

Product Name	Candied Orange & Cognac
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Product Code / SKU	P-AD-68
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Product Type	Fragrance Oil Blend
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Collection	After Dark
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Manufacturer	PLUME™
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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
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Hazard Identification

Classification

Hazard Class

Category

Skin Corrosion / Irritation	2
Skin Sensitization	1
Hazardous to the Aquatic Environment, Acute	1
Hazardous to the Aquatic Environment, Long-term	1
Flammable Liquid	1
Toxic to Reproduction	2
Eye Damage	2

Signal Word: WARNING

Hazard Statements

H224	Extremely flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child
H319	Causes serious eye irritation
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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 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, forearms and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P301+P312	IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use appropriate media to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.

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	%
BENZYL BENZOATE	CAS No. 120-51-4	Acute Tox. 4 (Oral), H302	30–70
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Timbersilk®)	CAS No. 54464-57-2	Skin Irrit. 2, H315; Skin Sens. 1B, H317	5–10
COUMARIN	CAS No. 91-64-5	Acute Tox. 4 (Oral), H302; Skin Sens. 1B, H317	1–5
LINALYL ACETATE	CAS No. 115-95-7	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2B, H320; Skin Sens. 1B, H317	1–5
LINALOOL	CAS No. 78-70-6	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	1–5
1,3-Benzodioxole-5-carbaldehyde	CAS No. 120-57-0	Skin Sens. 1B, H317	1–5
p-Mentha-1,4-diene	CAS No. 99-85-4	Flam. Liq. 3, H226; Repr. 2, H361; Asp. Tox. 1, H304	0.1–1

Section 4

First Aid Measures

Description of First Aid Measures

First-aid measures general:

If exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.

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:

Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

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:

Causes serious eye irritation.

Symptoms/effects after ingestion:

Harmful if swallowed.

Immediate Medical Attention and Special Treatment, if Necessary

Treat symptomatically.

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 Arising from the Chemical

Fire hazard:

Extremely flammable liquid and vapor.

Explosion hazard:

No direct explosion hazard.

Special Protective Equipment and Precautions for Firefighters

Firefighting instructions:

Fight fire from a 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 spilled material to prevent material damage.

For Non-Emergency Personnel

Protective equipment:

Wear recommended personal protective equipment.

Emergency procedures:

Ventilate spill area. No open flames, no sparks, no smoking. 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.

Emergency procedures:

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

Environmental Precautions

Avoid release to the environment.

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.

Reference to Other Sections

For further information refer to Section 13.

Handling and Storage

Precautions for Safe Handling

Additional hazards when processed:

add this nect for sectNot expected to present a significant hazard under anticipated conditions of normal use.

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. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe dust, fume, gas, mist, vapors or spray. Wash hands and other exposed areas thoroughly after handling.

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.

Handling and Storage

Conditions for Safe Storage, Including Any Incompatibilities

Technical measures:

Ground and bond container and receiving equipment.

Storage conditions:

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Packaging materials:

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

Exposure Controls / Personal Protection

Control parameters

BENZYL BENZOATE (120-51-4)

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 insufficient ventilation, wear respiratory protection.

Consumer exposure controls

Do not eat, drink or smoke during use.

Physical and Chemical Properties

Appearance	Free-flowing liquid without sediment
Odour	Characteristic
Odour threshold	Not determined
Melting point / freezing point	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not determined
Lower and upper explosion limit	Not determined
Flash point	> 212 °F
Auto-ignition temperature	Not determined
Decomposition temperature	Not relevant
pH	Not determined
Kinematic viscosity	Not determined
Solubility	Not determined
Partition coefficient: n-octanol/water (log value)	Not determined
Vapour pressure	Not determined
Relative vapour density	Not determined

Section 10

Stability and Reactivity

Reactivity

Extremely flammable liquid and vapor.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

No dangerous reactions known 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	Based on available data, the classification criteria are not met.
Acute Toxicity (Oral)	Harmful if swallowed.
Acute Toxicity (Dermal)	Not available
Acute Toxicity (Inhalation)	Not available
Skin Corrosion / Irritation	Skin Corrosion / Irritation Category 2
Serious Eye Damage / Irritation	Eye Damage / Irritation Category 2
Respiratory or Skin Sensitization	Skin Sensitization, Category 1
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
STOT – Single Exposure	Based on available data, the classification criteria are not met.
STOT – Repeated Exposure	Based on available data, the classification criteria are not met.
Aspiration Hazard	Based on available data, the classification criteria are not met.

Component Acute Toxicity Data

Ingredient	CAS No.	LD50 Dermal	LD50 Oral	LC50/ATE Inhalation	LC50 Route
2-Methyl-3-(p-isopropylphenyl) propionaldehyde	103-95-7		13810 (Oral)		
4-Methoxy-alpha-methylbenzenepropanal	5462-06-6		4000(Oral)		
Amyl salicylate	2050-08-0		2000 (Oral)		
Linalool	78-70-6		2790(Oral)		
alpha-Methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0		3562(Oral)		

Ecological Information

TOXICITY

GERANIOL (106-24-1)

LC50 - Fish [1] 22 mg/L
 EC50 - Crustacea [1] 10.8 mg/L

BENZYL BENZOATE (120-51-4)

LC50 - Fish [1] 2.32 mg/L
 EC50 - Crustacea [1] 3.09 mg/L

PHENYL ETHYL ALCOHOL (60-12-8)

LC50 - Fish [1] 220–260 mg/L
 EC50 - Crustacea [1] 287.17 mg/L

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)

EC50 - Crustacea [1] 0.61 mg/L
 NOEC Chronic Fish 0.035 mg/L

PERSISTENCE AND DEGRADABILITY

BENZYL BENZOATE (120-51-4)

Persistence and degradability Readily biodegradable in water.

LINALOOL (78-70-6)

Persistence and degradability Readily biodegradable in water.

LINALYL ACETATE (115-95-7)

Persistence and degradability Readily biodegradable in water.

COUMARIN (91-64-5)

Persistence and degradability Readily biodegradable in water.

1,3-Benzodioxole-5-carbaldehyde (120-57-0)

Persistence and degradability Biodegradable in soil. Readily biodegradable in water.
 ThOD 1.71 g O₂/g substance

BIOACCUMULATIVE POTENTIAL

BENZYL BENZOATE (120-51-4)

BCF Fish [1] 2286
 Partition coefficient n-octanol/water . Log Pow 3.97
 Bioaccumulation potential Low (Log Kow < 4)

LINALOOL (78-70-6)

Partition coefficient n-octanol/water . Log Pow 2.84
 Bioaccumulation potential Low (Log Kow < 4)

LINALYL ACETATE (115-95-7)

Partition coefficient n-octanol/water . Log Pow 3.93
 Bioaccumulation potential Low (Log Kow < 4)

MOBILITY IN SOIL

BENZYL BENZOATE (120-51-4)

Surface tension 0.027 N/m (20 °C)

Organic Carbon Normalized Adsorption

Coefficient (Log K_{oc}) 3.8

Ecology - soil Low potential for mobility in soil.

LINALOOL (78-70-6)

Surface tension 8.3 mN/m (20 °C)

Ecology - soil No test data available.

LINALYL ACETATE (115-95-7)

Ecology - soil Adsorbs into the soil.

Section 14

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



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 = $97 / (1 + \alpha (t_r - t_f))$

Where: t_r = the maximum mean bulk temperature during transport; t_f = 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.

Emergency Response Guide (ERG) Number:

171

Other information:

No supplementary information available.

Regulatory Information

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.

Other Information

Revision History

Version	Date	Description
1	08/05/2026	Initial release

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