



Moonlight Path Type

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/23/2019 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Moonlight Path Type

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Perfume ingredient. Not for use in food or feed.

1.3. Supplier

AAA Candle Supplies, Inc.
10460 Brockwood Rd
Dallas, Texas 75238
T (214) 342-9898
www.AAACandleSupply.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing mist, vapors and spray.
Contaminated work clothing must not be allowed out of the workplace
Wear protective gloves, protective clothing, eye and face protection
If on skin: Wash with plenty of water
If exposed or concerned: Get medical attention.
If skin irritation or rash occurs: Get medical attention.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents and container in accordance with applicable regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: 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	20 - 40	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
cinnamic alcohol	(CAS-No.) 104-54-1	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
coumarin	(CAS-No.) 91-64-5	< 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373

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Name	Product identifier	%*	GHS US classification
(+/-)-beta-citronellol	(CAS-No.) 106-22-9	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
2-(4-tert-butylbenzyl)propionaldehyde	(CAS-No.) 80-54-6	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
alpha-hexylcinnamaldehyde	(CAS-No.) 101-86-0	< 5	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde	(CAS-No.) 31906-04-4	< 5	Skin Sens. 1A, H317 Aquatic Acute 3, H402

*Exact concentrations have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned: Get medical 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 attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : May cause an allergic skin reaction.

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.

5.2. Specific hazards arising from the chemical

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

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapors and spray.

6.1.2. 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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- 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.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- 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 mist, vapors and spray.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

None established for components

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Colorless to light yellow

Odor : Characteristic – Moonlight Path Fragrance

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 : > 200 °F

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Specific gravity : No data available

Relative density : No data available

Solubility : Insoluble in water. Soluble in oil. Soluble in organic solvents.

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

9.2. Other information

No additional information 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.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

benzyl benzoate (120-51-4)	
LD50 oral rat	1870 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >2000 mg/kg bodyweight; Rat)
LD50 dermal rat	4400 mg/kg (Rat)
LD50 dermal rabbit	4000 mg/kg (Rabbit; Experimental value; Modification of Draize 1959 method; >2; Rabbit)
ATE US (oral)	1500 mg/kg body weight
ATE US (dermal)	4000 mg/kg body weight

(+/-)-beta-citronellol (106-22-9)	
LD50 oral rat	3450 mg/kg (Rat; Inconclusive, insufficient data)
LD50 dermal rabbit	2650 mg/kg (Rabbit; Inconclusive, insufficient data)
ATE US (oral)	3450 mg/kg body weight
ATE US (dermal)	2650 mg/kg body weight

coumarin (91-64-5)	
LD50 oral rat	300 - 900 mg/kg (Rat)
ATE US (oral)	300 mg/kg body weight

cinnamic alcohol (104-54-1)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	500 mg/kg body weight

alpha-hexylcinnamaldehyde (101-86-0)	
LD50 oral rat	3100 mg/kg (Rat)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)
ATE US (oral)	3100 mg/kg body weight

2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
LD50 oral rat	1390 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	1390 mg/kg body weight

4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (31906-04-4)	
LD50 oral rat	3218 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	3218 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

coumarin (91-64-5)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

coumarin (91-64-5)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

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SECTION 12: 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.

(+/-)-beta-citronellol (106-22-9)	
LC50 fish 1	> mg/l >10 <22,LC50; 96 h
EC50 Daphnia 1	17 mg/l (EC50; 48 h)
Threshold limit algae 1	2.4 mg/l (EC50; 72 h)
coumarin (91-64-5)	
LC50 fish 1	56 mg/l (LC50; 96 h)
EC50 Daphnia 1	135 mg/l (EC50; 48 h)
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
LC50 fish 1	> mg/l >2.2/4.6,LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio
EC50 Daphnia 1	10.7 mg/l (EC50; 48 h)

12.2. Persistence and degradability

benzyl benzoate (120-51-4)	
Persistence and degradability	Readily biodegradable in water. Low potential for mobility in soil.
(+/-)-beta-citronellol (106-22-9)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance
ThOD	2.961 g O ₂ /g substance
coumarin (91-64-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.
cinnamic alcohol (104-54-1)	
Persistence and degradability	Readily biodegradable in water.
alpha-hexylcinnamaldehyde (101-86-0)	
Persistence and degradability	Readily biodegradable in water.
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
Persistence and degradability	Readily biodegradable in water.
4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (31906-04-4)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

benzyl benzoate (120-51-4)	
BCF fish 1	2286 (BCF; BCFBAF v3.00; Pisces)
Log Pow	3.88 - 4
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
(+/-)-beta-citronellol (106-22-9)	
Log Pow	3.41 - 3.91
coumarin (91-64-5)	
BCF fish 1	< 10 (BCF; 72 h)
BCF other aquatic organisms 1	42 (BCF; 24 h; Chlorella sp.)
Log Pow	1.39
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
cinnamic alcohol (104-54-1)	
Log Pow	1.95
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
alpha-hexylcinnamaldehyde (101-86-0)	
BCF other aquatic organisms 1	3120 (BCF)
Log Pow	4.7
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
Log Pow	4.3

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4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (31906-04-4)

Bioaccumulative potential : No bioaccumulation data available.

12.4. Mobility in soil

benzyl benzoate (120-51-4)

Surface tension : 0.027 N/m (210 °C)

Log Koc : log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC); 3,8; Experimental value

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents and container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT : Non-hazardous; not regulated.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.