

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Angel

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

Flammable liquids Category 4	H227	Combustible liquid
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs through prolonged or repeated exposure

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) : H227 - Combustible liquid
H317 - May cause an allergic skin reaction
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : 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.
P260 - Do not breathe mist, vapors and spray.
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, protective clothing, eye and face protection
P302+P352 - If on skin: Wash with plenty of water
P308+P313 - If exposed or concerned: Get medical attention.
P314 - Get medical attention if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - 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

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3.2. Mixtures

Name	Product identifier	%*	GHS US classification
benzyl benzoate	(CAS-No.) 120-51-4	5 - 20	Acute Tox. 4 (Oral), H302
Tonalid	(CAS-No.) 21145-77-7	< 5	Acute Tox. 4 (Oral), H302
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
patchouli oil	(CAS-No.) 8014-09-3	< 5	Asp. Tox. 1, H304
linalol	(CAS-No.) 78-70-6	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H336
coumarin	(CAS-No.) 91-64-5	< 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373
Orange terpenes	(CAS-No.) 8028-48-6	< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304

*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 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

- Fire hazard : Combustible liquid.
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. No open flames, no sparks, and no smoking. Do not breathe mist, vapors and spray. Avoid contact with skin and eyes.

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.

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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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors and spray. Avoid contact with skin and eyes.

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.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

benzyl benzoate (120-51-4)
Not applicable
coumarin (91-64-5)
Not applicable
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)
Not applicable
linalol (78-70-6)
Not applicable
Orange terpenes (8028-48-6)
Not applicable
patchouli oil (8014-09-3)
Not applicable
Tonalid (21145-77-7)
Not applicable

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 : Orange to orange-brown

Odor : Characteristic

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 : > 160 °F

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

Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available

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Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water. Soluble in ethanol. 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

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.

SECTION 11: Toxicological information

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)	1870 mg/kg body weight
ATE US (dermal)	4000 mg/kg body weight
coumarin (91-64-5)	
LD50 oral rat	300 - 900 mg/kg (Rat)
ATE US (oral)	300 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
linalol (78-70-6)	
LD50 oral rat	2790 mg/kg (Rat)
LD50 dermal rat	5610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2790 mg/kg body weight
ATE US (dermal)	5610 mg/kg body weight

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patchouli oil (8014-09-3)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)

Tonalid (21145-77-7)	
LD50 oral rat	570 mg/kg
ATE US (oral)	500 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.
Specific target organ toxicity – single exposure	: Not classified

linalol (78-70-6)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

Orange terpenes (8028-48-6)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
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coumarin (91-64-5)	
Specific target organ toxicity – 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.

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.
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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)

linalol (78-70-6)	
EC50 Daphnia 1	59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 48 h; Daphnia magna)
EC50 other aquatic organisms 1	>= 100 mg/l (3 h; Activated sludge)
LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)

12.2. Persistence and degradability

benzyl benzoate (120-51-4)	
Persistence and degradability	Readily biodegradable in water. Low potential for mobility in soil.

coumarin (91-64-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.

2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
Persistence and degradability	Readily biodegradable in water.

linalol (78-70-6)	
Persistence and degradability	Readily biodegradable in water.

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linalol (78-70-6)	
Biochemical oxygen demand (BOD)	1.531 g O ₂ /g substance
Chemical oxygen demand (COD)	2.808 g O ₂ /g substance

Orange terpenes (8028-48-6)	
Persistence and degradability	Biodegradability in water: no data available.

patchouli oil (8014-09-3)	
Persistence and degradability	Biodegradability in water: no data available.

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).

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).

2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
Log Pow	4.3

linalol (78-70-6)	
Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable.

Orange terpenes (8028-48-6)	
Bioaccumulative potential	No bioaccumulation data available.

patchouli oil (8014-09-3)	
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

benzyl benzoate (120-51-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

coumarin (91-64-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

linalol (78-70-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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Orange terpenes (8028-48-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

patchouli oil (8014-09-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Tonalid (21145-77-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

H226	Flammable liquid and vapor.
H227	Combustible liquid
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
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

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