

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Fireside

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 corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
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) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P260 - Do not breathe mist, vapors and 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 and face 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
P314 - Get medical attention if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
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	20 - 40	Acute Tox. 4 (Oral), H302
4-methoxybenzaldehyde	(CAS-No.) 123-11-5	5 - 20	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315
cinnamaldehyde	(CAS-No.) 104-55-2	5 - 20	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
3-ethoxy-4-hydroxybenzaldehyde	(CAS-No.) 121-32-4	5 - 20	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
coumarin	(CAS-No.) 91-64-5	< 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373
4-hydroxy-3-methoxybenzaldehyde	(CAS-No.) 121-33-5	< 5	Comb. Dust Eye Irrit. 2A, H319
eugenol	(CAS-No.) 97-53-0	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
2-ethyl-3-hydroxy-4-pyrone	(CAS-No.) 4940-11-8	< 5	Acute Tox. 4 (Oral), H302
methyl cinnamate	(CAS-No.) 103-26-4	< 5	Skin Sens. 1A, H317
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

*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 : Get medical attention 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 : 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- 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 : Irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Eye irritation.

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. 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.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
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. Do not breathe mist, vapors and spray. Avoid contact with skin and eyes. Wear personal protective equipment.
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.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4-methoxybenzaldehyde (123-11-5)

Not applicable

benzyl benzoate (120-51-4)

Not applicable

cinnamic alcohol (104-54-1)

Not applicable

cinnamaldehyde (104-55-2)

Not applicable

coumarin (91-64-5)

Not applicable

3-ethoxy-4-hydroxybenzaldehyde (121-32-4)

Not applicable

eugenol (97-53-0)

Not applicable

methyl cinnamate (103-26-4)

Not applicable

4-hydroxy-3-methoxybenzaldehyde (121-33-5)

Not applicable

2-ethyl-3-hydroxy-4-pyrone (4940-11-8)

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 : In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless to light yellow
Odor : Cinnamon Vanilla
Odor threshold : No data available
pH : No data available
Melting point : Not applicable

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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
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

11.1. Information on toxicological effects

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

4-methoxybenzaldehyde (123-11-5)	
LD50 oral rat	1510 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	1510 mg/kg body weight

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

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

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cinnamaldehyde (104-55-2)	
LD50 oral rat	2220 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	2220 mg/kg body weight

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

3-ethoxy-4-hydroxybenzaldehyde (121-32-4)	
LD50 oral rat	1590 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE US (oral)	1590 mg/kg body weight

eugenol (97-53-0)	
LD50 oral rat	2680 mg/kg (Rat)
ATE US (oral)	2680 mg/kg body weight

methyl cinnamate (103-26-4)	
LD50 oral rat	2610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2610 mg/kg body weight

4-hydroxy-3-methoxybenzaldehyde (121-33-5)	
LD50 oral rat	2800 mg/kg (Rat)
LD50 dermal rabbit	> 5010 mg/kg (Rabbit)
ATE US (oral)	2800 mg/kg body weight

2-ethyl-3-hydroxy-4-pyrone (4940-11-8)	
LD50 oral rat	1150 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	1150 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	: Not classified
Carcinogenicity	: Not classified

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

eugenol (97-53-0)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

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	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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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4-methoxybenzaldehyde (123-11-5)	
LC50 fish 1	220 mg/l (LC50; 96 h)
EC50 Daphnia 1	83 mg/l (EC50; 48 h)

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Threshold limit algae 1	43 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)
3-ethoxy-4-hydroxybenzaldehyde (121-32-4)	
LC50 fish 1	87.6 mg/l (LC50; 96 h)
eugenol (97-53-0)	
LC50 fish 1	24 mg/l (LC50; 96 h)
4-hydroxy-3-methoxybenzaldehyde (121-33-5)	
EC50 Daphnia 1	180 mg/l (EC50; 24 h)
LC50 fish 2	88 - 121 mg/l (LC50; 96 h; Pimephales promelas)
Threshold limit algae 1	2 mg/l (EC0; 72 h)

12.2. Persistence and degradability

4-methoxybenzaldehyde (123-11-5)	
Persistence and degradability	Readily biodegradable in water.
benzyl benzoate (120-51-4)	
Persistence and degradability	Readily biodegradable in water. Low potential for mobility in soil.
cinnamic alcohol (104-54-1)	
Persistence and degradability	Readily biodegradable in water.
cinnamaldehyde (104-55-2)	
Persistence and degradability	Readily biodegradable in water.
coumarin (91-64-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.
3-ethoxy-4-hydroxybenzaldehyde (121-32-4)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Photodegradation in the air.
ThOD	1.81 g O ₂ /g substance
BOD (% of ThOD)	0.529 (5 days; Literature study)
eugenol (97-53-0)	
Persistence and degradability	Biodegradability in water: no data available.
methyl cinnamate (103-26-4)	
Persistence and degradability	Biodegradability in water: no data available.
4-hydroxy-3-methoxybenzaldehyde (121-33-5)	
Persistence and degradability	Inherently biodegradable.
2-ethyl-3-hydroxy-4-pyrone (4940-11-8)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

4-methoxybenzaldehyde (123-11-5)	
Log Pow	1.5
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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).
cinnamic alcohol (104-54-1)	
Log Pow	1.95
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
cinnamaldehyde (104-55-2)	
Log Pow	1.9 - 2.22
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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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).

3-ethoxy-4-hydroxybenzaldehyde (121-32-4)	
Log Pow	1.61 - 1.88
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

eugenol (97-53-0)	
Log Pow	2.27
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

methyl cinnamate (103-26-4)	
Bioaccumulative potential	No bioaccumulation data available.

4-hydroxy-3-methoxybenzaldehyde (121-33-5)	
Log Pow	1.21 - 1.37
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

2-ethyl-3-hydroxy-4-pyrone (4940-11-8)	
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

4-methoxybenzaldehyde (123-11-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
benzyl benzoate (120-51-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
cinnamic alcohol (104-54-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
cinnamaldehyde (104-55-2)
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
3-ethoxy-4-hydroxybenzaldehyde (121-32-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
eugenol (97-53-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
methyl cinnamate (103-26-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
4-hydroxy-3-methoxybenzaldehyde (121-33-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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2-ethyl-3-hydroxy-4-pyrone (4940-11-8)

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:

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
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