



Autumn Spice

Safety Data Sheet

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

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Version: 2.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Autumn Spice

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 |
| Acute toxicity (oral) Category 4 | H302 | Harmful if swallowed |
| 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 |
| Germ cell mutagenicity Category 2 | H341 | Suspected of causing genetic defects |
| Carcinogenicity Category 1B | H350 | May cause cancer |
| Specific target organ toxicity (repeated exposure) Category 2 | H373 | May cause damage to organs through prolonged or repeated exposure |
| Aspiration hazard Category 1 | H304 | May be fatal if swallowed and enters airways |

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) :

Danger

Hazard statements (GHS US) :

Combustible liquid
Harmful if swallowed
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
Suspected of causing genetic defects
May cause cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) :

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe mist, vapors and spray.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye and face protection
If swallowed: Immediately call a poison center or doctor.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical attention.
Get medical attention if you feel unwell.
Rinse mouth.
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical attention.
If eye irritation persists: Get medical attention.

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Take off contaminated clothing and wash it before reuse.
 In case of fire: Use media other than water to extinguish.
 Store in a well-ventilated place. Keep cool.
 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 |
|---------------------------------|---------------------|---------|---|
| oils, clove | (CAS-No.) 8000-34-8 | 20 – 40 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 2, H401 |
| cinnamaldehyde | (CAS-No.) 104-55-2 | 5 – 20 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Beta-caroyophyllene | (CAS-No.) 87-44-5 | 5 – 20 | Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 4, H413 |
| 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 |
| isoeugenol | (CAS-No.) 97-54-1 | < 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1A, H317 STOT SE 3, H335 |
| Phenyl Ethyl Alcohol | (CAS-No.) 60-12-8 | < 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Eye Irrit. 2A, H319 |
| cinnamon oils | (CAS-No.) 8015-91-6 | < 5 | Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| benzyl acetate | (CAS-No.) 140-11-4 | < 5 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 3, H412 |
| 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 | Eye Irrit. 2A, H319 Aquatic Acute 3, H402 Comb. Dust |
| alpha-pentylcinnamaldehyde | (CAS-No.) 122-40-7 | < 5 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |

*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 : Call a physician immediately.

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- 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 : Do not induce vomiting. Call a physician immediately. Rinse mouth.

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.
- Symptoms/effects after ingestion : Risk of lung edema.

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. Do not breathe mist, vapors and spray. Avoid contact with skin and eyes. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene.

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. Notify authorities if product enters sewers or public waters.

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. Do not breathe mist, vapors and spray. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.

- 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. Separate working clothes from town clothes. Launder separately.

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

| benzyl acetate (140-11-4) | | |
|---------------------------|-----------------|----------------|
| ACGIH | Local name | Benzyl acetate |
| ACGIH | ACGIH TWA (ppm) | 10 ppm |
| ACGIH | Remark (ACGIH) | URT irr |

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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. Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
Color : amber
Odor : Characteristic – Autumn Spice
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : > 95 °F
Flash point : > 194 °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.
Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : < 100 mm²/s
Viscosity, dynamic : < 100 cP
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). 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) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified

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Acute toxicity (inhalation) : Not classified

| Autumn Spice | |
|---|----------------------------|
| ATE US (oral) | 1607.176 mg/kg body weight |
| coumarin (91-64-5) | |
| LD50 oral rat | 300 – 900 mg/kg (Rat) |
| ATE US (oral) | 300 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 |
| benzyl acetate (140-11-4) | |
| LD50 oral rat | 2490 mg/kg (Rat) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit) |
| ATE US (oral) | 2490 mg/kg body weight |
| alpha-pentylcinnamaldehyde (122-40-7) | |
| LD50 oral rat | 3730 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| ATE US (oral) | 3730 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 |
| cinnamaldehyde (104-55-2) | |
| LD50 oral rat | 2220 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| ATE US (oral) | 500 mg/kg body weight |
| ATE US (dermal) | 1100 mg/kg body weight |
| Phenyl Ethyl Alcohol (60-12-8) | |
| LD50 oral rat | > 1790 mg/kg (Rat) |
| LD50 dermal rabbit | > 808 mg/kg (Rabbit) |
| LC50 Inhalation - Rat | > 1.4 mg/l/4h (Rat) |
| ATE US (oral) | 1610 mg/kg body weight |
| ATE US (dermal) | 300 mg/kg body weight |
| isoeugenol (97-54-1) | |
| LD50 oral rat | 1560 mg/kg (Rat) |
| ATE US (oral) | 1500 mg/kg body weight |
| ATE US (dermal) | 1912 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |
| cinnamon oils (8015-91-6) | |
| LD50 oral rat | 2650 mg/kg (Rat) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit) |
| ATE US (oral) | 2650 mg/kg body weight |
| oils, clove (8000-34-8) | |
| LD50 oral rat | 1370 mg/kg (Rat) |
| LD50 dermal rabbit | 1200 mg/kg (Rabbit) |
| ATE US (oral) | 1370 mg/kg body weight |
| ATE US (dermal) | 1200 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 : Suspected of causing genetic defects.

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Carcinogenicity : May cause cancer.

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

| benzyl acetate (140-11-4) | |
|----------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

| benzyl acetate (140-11-4) | |
|----------------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

| isoeugenol (97-54-1) | |
|-----------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

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

Aspiration hazard : May be fatal if swallowed and enters airways.

Viscosity, kinematic : < 100 mm²/s

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

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Risk of lung edema.

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.

| coumarin (91-64-5) | |
|---------------------------|-----------------------|
| LC50 fish 1 | 56 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | 135 mg/l (EC50; 48 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) |

| benzyl acetate (140-11-4) | |
|----------------------------------|----------------------|
| LC50 fish 1 | 68 mg/l (LC50; 96 h) |

| alpha-pentylcinnamaldehyde (122-40-7) | |
|--|---|
| LC50 fish 1 | 3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio) |
| EC50 Daphnia 1 | 1.1 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 96 h; Daphnia magna) |

| Phenyl Ethyl Alcohol (60-12-8) | |
|---------------------------------------|--|
| LC50 fish 1 | 220 – 260 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | 287.17 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna) |

12.2. Persistence and degradability

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

| 4-hydroxy-3-methoxybenzaldehyde (121-33-5) | |
|---|---------------------------|
| Persistence and degradability | Inherently biodegradable. |

| benzyl acetate (140-11-4) | |
|----------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| alpha-pentylcinnamaldehyde (122-40-7) | |
|--|---|
| Persistence and degradability | Readily biodegradable in water. Biodegradability in soil: no data available. Adsorbs into the soil. |

| cinnamic alcohol (104-54-1) | |
|------------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

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| | |
|---|--|
| cinnamaldehyde (104-55-2) | |
| Persistence and degradability | Readily biodegradable in water. |
| Phenyl Ethyl Alcohol (60-12-8) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. |
| Biochemical oxygen demand (BOD) | 1.45 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.5 g O ₂ /g substance |
| ThOD | 2.6 g O ₂ /g substance |
| BOD (% of ThOD) | 0.558 |
| isoeugenol (97-54-1) | |
| Persistence and degradability | Biodegradability in water: no data available. |
| cinnamon oils (8015-91-6) | |
| Persistence and degradability | Biodegradability in water: no data available. |
| oils, clove (8000-34-8) | |
| Persistence and degradability | Biodegradability in water: no data available. |
| 12.3. Bioaccumulative potential | |
| coumarin (91-64-5) | |
| BCF fish 1 | < 10 (BCF; 72 h) |
| BCF other aquatic organisms 1 | 42 (BCF; 24 h; Chlorella sp.) |
| Partition coefficient n-octanol/water (Log Pow) | 1.39 |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| 4-hydroxy-3-methoxybenzaldehyde (121-33-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.21 – 1.37 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| benzyl acetate (140-11-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.96 – 2 (QSAR) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| alpha-pentylcinnamaldehyde (122-40-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.3 – 4.7 |
| cinnamic alcohol (104-54-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.95 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| cinnamaldehyde (104-55-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.9 – 2.22 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| Phenyl Ethyl Alcohol (60-12-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.38 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| isoeugenol (97-54-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.04 |
| Bioaccumulative potential | No bioaccumulation data available. |
| cinnamon oils (8015-91-6) | |
| Bioaccumulative potential | No bioaccumulation data available. |
| oils, clove (8000-34-8) | |
| Bioaccumulative potential | No bioaccumulation data available. |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

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

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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

| Component | State or local regulations |
|--------------------------|--|
| benzyl acetate(140-11-4) | U.S. - New Jersey - Right to Know Hazardous Substance List |

SECTION 16: Other information

Revision date : 11/24/2020

Full text of H-phrases:

| | |
|------|---|
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| 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 |
| H413 | May cause long lasting harmful effects to aquatic life |

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.