# SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** HOLIDAY F21198

**Version:** 2

## Section 1. Identification of the substance or the mixture and of the supplier

### 1.1 Product Identifier

**Product identifier:** HOLIDAY F21198(Contains:Cinnamaldehyde, Eugenol, alpha-Methylcinnamaldehyde, d-Limonene)

**Other identifiers:** None

### 1.2 Relevant identified uses of the substance of mixture and uses advised against

**Product uses:** Fragrances

### 1.3 Details of the supplier of the safety data sheet

**Company name:** Aromatic Fragrances International

**Company address:** 85 Wansley Drive SE
Cartersville, GA 30121
USA

**Contact:** Regulatory Affairs

**E-Mail address:** regulatory@afi-usa.com

**Company phone:** 770-334-3906

### 1.4 Emergency telephone number

**Emergency phone:** +1 888 360 3639

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Class and category of danger:** Flammable Liquid, Hazard Category 3
Skin Corrosion / Irritation Category 2
Eye Damage / Irritation Category 2
Sensitization - Skin Category 1
Aspiration Hazard Category 1
Hazardous to the Aquatic Environment - Acute Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 2
H226, Flammable liquid and vapour.
H304, May be fatal if swallowed and enters airways.
H315, Causes skin irritation.
H319, Causes serious eye irritation.
H317, May cause an allergic skin reaction.
H400, Very toxic to aquatic life.
H411, Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Signal word:** Danger

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**Hazard statements:**

H226, Flammable liquid and vapour.
H304, May be fatal if swallowed and enters airways.
H315, Causes skin irritation.
H319, Causes serious eye irritation.
H317, May cause an allergic skin reaction.
H400, Very toxic to aquatic life.
H411, Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233, Keep container tightly closed.
P240, Ground/bond container and receiving equipment.
P241, Use explosion-proof electrical, ventilating and lighting equipment.
P242, Use only non-sparking tools.
P243, Take precautionary measures against static discharge.
P264, Wash hands and other contacted skin thoroughly after handling.
P273, Avoid release to the environment.
P280, Wear protective gloves/eye protection/face protection.
P261, Avoid breathing vapour or dust.
P272, Contaminated work clothing should not be allowed out of the workplace.
P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331, Do not induce vomiting.
P337/313, If eye irritation persists: Get medical advice/attention.
P333/313, If skin irritation or rash occurs: Get medical advice/attention.
P362, Take off contaminated clothing and wash before reuse.
P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391, Collect spillage.
P403/235, Store in a well-ventilated place. Keep cool.
P405, Store locked up.
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Pictograms:**

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### 2.3 Other hazards

**Other hazards:** Hydrocarbon Concentration %: 59.1985%

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 17 1207/2006, Annex XIII.

## Section 3. Composition / information on ingredients

### 3.2 Mixtures

**Contains:**

| Name | CAS | % | GHS Classification |
|---|---|---|---|
| d-Limonene | 5989-27-5 | 50-100% | Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 3;H226-H304-H315-H317-H400-H412 |
| Cinnamaldehyde | 104-55-2 | 10-<20% | Acute Tox. 5-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1A-Aquatic Acute 1-Aquatic Chronic 2;H303-H312-H315-H319-H317-H400-H411 |
| alpha-Methylcinnamaldehyde | 101-39-3 | 10-<20% | Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 3;H303-H317-H400-H412 |
| Eugenol | 97-53-0 | 5-<10% | Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H303-H316-H319-H317-H401 |
| Myrcene | 123-35-3 | 1-<5% | Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2;H226-H304-H315-H319-H400-H411 |
| Butylated hydroxytoluene | 128-37-0 | 1-<5% | Aquatic Acute 1-Aquatic Chronic 1;H410 |
| Coumarin | 91-64-5 | 0.1-<1% | Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 3;H302-H317-H402 |
| Linalool | 78-70-6 | 0.1-<1% | Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H319-H317-H402 |
| alpha-Pinene | 80-56-8 | 0.1-<1% | Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H302-H304-H315-H317-H410 |
| beta-Caryophyllene | 87-44-5 | 0.1-<1% | Skin Sens. 1B-Asp. Tox 1;H304-H317 |
| Octanal | 124-13-0 | 0.1-<1% | Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 2-Aquatic Chronic 3;H226-H315-H319-H401-H412 |
| delta-3-Carene | 13466-78-9 | 0.1-<1% | Flam. Liq. 3-Acute Tox. 5-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H303-H304-H315-H332-H317-H410 |
| Benzyl benzoate | 120-51-4 | 0.1-<1% | Acute Tox. 4-Aquatic Acute 1-Aquatic Chronic 2;H302-H400-H411 |
| Citral | 5392-40-5 | 0.1-<1% | Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1-Aquatic Acute 2;H315-H319-H317-H401 |
| Cedrol methyl ether | 19870-74-7 | 0.1-<1% | Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1;H317-H410 |
| Eugenyl acetate | 93-28-7 | 0.1-<1% | Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 2;H302-H317-H401 |

**Substances with workplace exposure limits, not listed above:**

Not Applicable

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## Section 4. First-aid measures

### 4.1 Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

**Eye exposure:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin exposure:** IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### 4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

### 5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

### 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

### 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

### 6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

### 6.4 Reference to other sections:

Also refer to sections 8 and 13.

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## Section 7. Handling and storage

### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 7.3 Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

**Workplace exposure limits:** Not Applicable

### 8.2 Exposure Controls

**Eye / Skin Protection**

Wear protective gloves/eye protection/face protection

**Respiratory Protection**

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

## Section 9. Physical and chemical properties

### 9.1 Information on basic 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:** | 56 °C |

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| | |
|---|---|
| **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 |
| **Density and/or relative density:** | 0.8980 - 0.9280 |
| **Relative vapour density:** | Not determined |
| **Particle characteristics:** | Not determined |

**9.2 Other information:**

| | |
|---|---|
| Flash Point (Fahrenheit): | 132 °F |
| Refractive Index @ 20C: | 1.5100 - 1.5200 |
| Calculated VOC: | 60.69 |

## Section 10. Stability and reactivity

**10.1 Reactivity:**

Presents no significant reactivity hazard, by itself or in contact with water.

**10.2 Chemical stability:**

Good stability under normal storage conditions.

**10.3 Possibility of hazardous reactions:**

Not expected under normal conditions of use.

**10.4 Conditions to avoid:**

Avoid extreme heat.

**10.5 Incompatible materials:**

Avoid contact with strong acids, alkalis or oxidising agents.

**10.6 Hazardous decomposition products:**

Not expected.

## Section 11. Toxicological information

**11.1 Information on toxicological effects**

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in UN GHS.

**Acute Toxicity:** Based on available data the classification criteria are not met.

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| | |
|---|---|
| Acute Toxicity Oral | >5000 |
| Acute Toxicity Dermal | >5000 |
| 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 sensitisation:** | Sensitization - Skin 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:** | Based on available data the classification criteria are not met. |
| **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:** | Aspiration Hazard Category 1 |

**Information about hazardous ingredients in the mixture**

| Ingredient | CAS | LD50/ATE Oral (mg/kg) | LD50/ATE Dermal (mg/kg) | LC50/ATE Inhalation | LC50 Route |
|---|---|---|---|---|---|
| Cinnamaldehyde | 104-55-2 | 2220 | 1260 | | |
| Eugenol | 97-53-0 | 2500 | | | |
| alpha-Methylcinnamaldehyde | 101-39-3 | 2050 | | | |

Refer to Sections 2 and 3 for additional information.

## Section 12. Ecological information

**12.1 Toxicity:**

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability:** Not available

**12.3 Bioaccumulative potential:** Not available

**12.4 Mobility in soil:** Not available

**12.5 Other adverse effects:** Not available

## Section 13. Disposal considerations

**13.1 Waste treatment methods:**

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## Section 14. Transport information

| | 14.1 UN number: | 14.2 UN Proper Shipping Name: | 14.3 Transport hazard class (es): | Sub Risk: | 14.4 Packing Group: |
|---|---|---|---|---|---|
| **UN Model Regulations** | UN1197 | EXTRACTS, LIQUID | 3 | - | III |
| **IMDG** | UN1197 | EXTRACTS, LIQUID (d-Limonene) MARINE POLLUTANT | 3 | - | III |
| **ADR,RID,ADN** | UN1197 | EXTRACTS, LIQUID | 3 | - | III |
| **ICAO TI** | UN1197 | EXTRACTS, LIQUID | 3 | - | III |

**14.5 Environmental hazards:** This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

**14.6 Special precautions for user:** None additional

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable

## Section 15. Regulatory information

**Essential Oil Components:**

| Name | CAS | % |
|---|---|---|
| Orange peel, sweet, oil | 8028-48-6, 8008-57-9 | 50-100% |
| Cinnamon leaf oil | 84649-98-9, 8015-91-6 | 5-<10% |
| Clove leaf oil | 84961-50-2, 8000-34-8 | 0.1-<1% |
| Orange oil, bitter | 72968-50-4, 68916-04-1 | 0.1-<1% |

**Components listed on California's Proposition 65:**

| Name | CAS | % |
|---|---|---|
| Myrcene | 123-35-3 | 1-<5% |

**Naturally-Occuring Materials exempt from Prop65:**

| Name | CAS | % |
|---|---|---|
| Eugenyl methyl ether | 93-15-2 | |
| Myrcene | 123-35-3 | |
| Safrole | 94-59-7 | |

**Components listed on California's SB312**

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| Name | CAS | % |
|---|---|---|
| Cinnamaldehyde | 104-55-2 | 10-<20% |
| Coumarin | 91-64-5 | 0.1-<1% |
| Eugenol | 97-53-0 | 0.1-<1% |
| Citral | 5392-40-5 | 0.1-<1% |
| Linalool | 78-70-6 | <0.1% |

**Additional formulation properties**

| Name | CAS | % |
|---|---|---|
| Ethyl vanillin | 121-32-4 | 0.1-<1% |

## Section 16. Other information

**Concentration % Limits:** SCI 2=13.46% SCI 3=1.31% EDI 2A=46.82% AH 1=16.89% SS 1=0.66354799% EH A1=27.44% EH A2=2.73% EH A3=0.27285408% EH C2=75.53% EH C3=6.19% EH C4=27.49%

**Total Fractional Values:** SCI 2=7.43 SCI 3=76.09 EDI 2A=2.14 AH 1=5.92 SS 1=150.71 EH A1=3.64 EH A2=36.65 EH A3=366.50 EH C2=1.32 EH C3=16.16 EH C4=3.64

**Key to revisions:**

2.1 Classification of the substance or mixture
Concentration % Limits
Hazardous Ingredients disclosed in a GHS Safety Data Sheet with banded concentrations
Information about hazardous ingredients in the mixture
Ingredients with an Occupational Exposure Limit disclosed on a GHS Safety Data Sheet Banded values
SECTION 3: Composition/information on ingredients
Total Fractional Values

**Key to abbreviations:**

| Abbreviation | Meaning |
|---|---|
| Acute Tox. 4 | Acute Toxicity - Dermal Category 4 |
| Acute Tox. 4 | Acute Toxicity - Oral Category 4 |
| Acute Tox. 4 | Acute Toxicity - Inhalation Category 4 |
| Acute Tox. 5 | Acute Toxicity - Oral Category 5 |
| Aquatic Acute 1 | Hazardous to the Aquatic Environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the Aquatic Environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the Aquatic Environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the Aquatic Environment - Long-term Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the Aquatic Environment - Long-term Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the Aquatic Environment - Long-term Hazard Category 3 |
| Asp. Tox 1 | Aspiration Hazard Category 1 |
| Eye Irrit. 2A | Eye Damage / Irritation Category 2A |

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| | |
|---|---|
| Flam. Liq. 3 | Flammable Liquid, Hazard Category 3 |
| Flam. Liq. 4 | Flammable Liquid, Hazard Category 4 |
| H226 | Flammable liquid and vapour. |
| H227 | Combustible liquid. |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H316 | Causes mild skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life. |
| H402 | Harmful to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| P210 | Keep away from heat, sparks, open flames and hot surfaces. - No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing vapour or dust. |
| P264 | Wash hands and other contacted skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/eye protection/face protection. |
| P301/310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P301/312 | IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. |
| P302/352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303/361/353 | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304/340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305/351/338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |
| P330 | Rinse mouth. |

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| | |
|---|---|
| P331 | Do not induce vomiting. |
| P332/313 | If skin irritation occurs: Get medical advice/attention. |
| P333/313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337/313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P370/378 | In case of fire: Use carbon dioxide, dry chemical, foam for extinction. |
| P391 | Collect spillage. |
| P403/235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to approved disposal site, in accordance with local regulations. |
| Skin Irrit. 2 | Skin Corrosion / Irritation Category 2 |
| Skin Irrit. 3 | Skin Corrosion / Irritation Category 3 |
| Skin Sens. 1 | Sensitization - Skin Category 1 |
| Skin Sens. 1A | Sensitization - Skin Category 1A |
| Skin Sens. 1B | Sensitization - Skin Category 1B |

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.