



Version: 4 (05/26/2023)

## **SAFETY DATA SHEET**

In accordance with UN GHS latest edition

**Product:** Compare to aroma ORANGE CHIFFON CAKE by AFI ® F20214

Version: 4

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

#### 1.1 Product Identifier

Product identifier: Compare to aroma ORANGE CHIFFON CAKE by AFI ® F20214(Contains:Cinnamaldehyde,

Linalool, Piperonal, 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, Inc

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: 770-334-3906

### Section 2. Hazards identification

## 2.1 Classification of the substance or mixture

**Class and category of** Flammable Liquid, Hazard Category 4 danger: 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 2
Hazardous to the Aquatic Environment - Long-term Hazard Category 2

H227, Combustible liquid.

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.

H411, Toxic to aquatic life with long lasting effects.

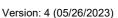
2.2 Label elements

Signal word: Danger

Hazard statements: H227, Combustible liquid.

H304, May be fatal if swallowed and enters airways.







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H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H411, Toxic to aquatic life with long lasting effects.

**Precautionary** statements:

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P261, Avoid breathing vapour or dust.

P264, Wash hands and other contacted skin thoroughly after handling.

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.

P302/352, IF ON SKIN: Wash with plenty of soap and water.

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.

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.

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.





#### 2.3 Other hazards

Other hazards: Hydrocarbon Concentration %: 12.9600%

## Section 3. Composition / information on ingredients

### 3.2 Mixtures

#### Contains:

Name	CAS	%	GHS Classification
Diethyl phthalate	84-66-2	20-<50%	Skin Irrit. 3-Aquatic Acute 3;H316-H402
Ethyl vanillin	121-32-4	10-<20%	Acute Tox. 5-Eye Irrit. 2B-Aquatic Acute 3;H303-H320-H402



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d-Limonene	5989-27-5	10-<20%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 3;H226-H304-H315- H317-H400-H412
1,3,4,6,7,8-Hexahydro- 4,6,6,7,8,8- hexamethylcyclopenta-gamma- 2-benzopyran	1222-05-5	5-<10%	Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 1;H316- H410
Vanillin	121-33-5	1-<5%	Acute Tox. 5-Eye Irrit. 2A-Aquatic Acute 3;H303-H319- H402
Piperonal	120-57-0	1-<5%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H303- H317-H401
Ethyl maltol	4940-11-8	1-<5%	Acute Tox. 4-Aquatic Acute 2;H302-H401
gamma-Octalactone	104-50-7	1-<5%	Acute Tox. 5-Skin Irrit. 2-Aquatic Acute 3;H303-H315- H402
2-Acetylpyridine	1122-62-9	1-<5%	Flam. Liq. 4-Acute Tox. 5;H227-H303
Cinnamaldehyde	104-55-2	1-<5%	Acute Tox. 5-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1A-Aquatic Acute 2-Aquatic Chronic 3;H303-H312-H315-H317-H319-H401-H412
Acetoin	513-86-0	1-<5%	Flam. Liq. 3-STOT RE 2;H226-H373
Citral	5392-40-5	1-<5%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1- Aquatic Acute 2;H313-H315-H317-H319-H401
Linalool	78-70-6	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H317- H319-H402
Coumarin	91-64-5	0.1-<1%	Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 3;H302- H317-H402
Myrcene	123-35-3	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2;H226-H304-H315-H319- H400-H411
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	68039-49-6	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H227- H303-H315-H317-H319-H411
Diacetyl	431-03-8	0.1-<1%	Flam. Liq. 2-Acute Tox. 4-Acute Tox. 3-Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1-STOT RE 2-Aquatic Acute 3; H225-H302-H315-H317-H318-H331-H373-H402
Octanal	124-13-0	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 2- Aquatic Chronic 2;H226-H315-H319-H411

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

Not Applicable

#### 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: Wash with plenty of soap and water.

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.

May cause an allergic skin reaction.





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Causes serious eye irritation.

## 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.

### Section 7. Handling and storage

#### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

## 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





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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
pH: Not determined
Melting point / freezing point: Not determined
Initial boiling point / range: Not determined

Flash point: 63 °C

**Evaporation rate:** Not determined Flammability (solid, gas): Not determined

Upper/lower flammability or explosive limits: Product does not present an explosion hazard

Vapour pressure: Not determined Vapour density: Not determined Relative density: 1.0640 - 1.0740 Solubility(ies): Not determined Partition coefficient: n-octanol/water: Not determined **Auto-ignition temperature:** Not determined **Decomposition temperature:** Not determined **Viscosity:** Not determined **Explosive properties:** Not expected Oxidising properties: Not expected

9.2 Other information:

Refractive Index @ 20C: 1.5120 - 1.5220

Flash Point (Fahrenheit): 146 °F





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Calculated VOC: 13.65

Color Range: 4 Pale Yellow - 6 Pale Yellow

## 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.

>5000 **Acute Toxicity Oral** >5000 **Acute Toxicity Dermal** 

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. Based on available data the classification criteria are not met. Reproductive toxicity: STOT-single exposure: Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. STOT-repeated exposure:

**Aspiration hazard: Aspiration Hazard Category 1** 

Information about hazardous ingredients in the mixture



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Ingredient	CAS	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
2-Acetylpyridine	1122-62-9	2140	Not available	Not available	Not available
Cinnamaldehyde	104-55-2	2200	1100	Not available	Not available
Citral	5392-40-5	Not available	2250	Not available	Not available
Diacetyl	431-03-8	1580	Not available	3	Not available
Ethyl maltol	4940-11-8	1200	Not available	Not available	Not available
Ethyl vanillin	121-32-4	3000	Not available	Not available	Not available
Linalool	78-70-6	2790	Not available	Not available	Not available
Piperonal	120-57-0	2700	Not available	Not available	Not available
Vanillin	121-33-5	3500	Not available	Not available	Not available
gamma-Octalactone	104-50-7	4400	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

## Section 12. Ecological information

### 12.1 Toxicity:

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 Mobility in soil:Not available12.5 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.

## **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	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-	9	-	III



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		benzopyran, d-Limonene)			
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, d-Limonene) MARINE POLLUTANT	9	-	III
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, d-Limonene)	9	-	III
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, d-Limonene)	9	-	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**

Components listed on California's Proposition 65:

Name	CAS	%
Myrcene		0.1-<1%

## Additional formulation properties

Name	CAS	%
Diethyl phthalate	84-66-2	20-<50%
Ethyl vanillin	121-32-4	10-<20%
Vanillin	121-33-5	1-<5%

### Components listed on California's SB312

Name	CAS	%
CINNAMIC ALDEHYDE	104-55-2	1-<5%
CITRAL	5392-40-5	1-<5%
LINALOOL	78-70-6	1-<5%
COUMARIN ( C )	91-64-5	0.1-<1%

US Department Of Transport Bulk Packing - Group:





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**Section 16. Other information** 

**Concentration % Limits:** SCI 2=57.60% SCI 3=4.29% EDI 2A=40.82% EDI 2B=62.50% SS 1=7.

72% AH 1=77.16% EH A2=13.26% EH A3=1.28% EH C2=50.00% EH

C3=4.86%

**Total Fractional Values:** SCI 2=1.74 SCI 3=23.28 EDI 2A=2.45 EDI 2B=1.60 SS 1=12.96 AH 1=1.

30 EH A2=7.54 EH A3=78.18 EH C2=2.00 EH C3=20.56

Key to revisions:

Concentration % Limits

**GHS Workplace Exposure Limits** 

SECTION 3: Composition/information on ingredients

**Total Fractional Values** 

## Key to abbreviations:

Abbreviation	Meaning
Acute Tox. 3	Acute Toxicity - Inhalation Category 3
Acute Tox. 4	Acute Toxicity - Oral Category 4
Acute Tox. 4	Acute Toxicity - Dermal Category 4
Acute Tox. 5	Acute Toxicity - Oral Category 5
Acute Tox. 5	Acute Toxicity - Dermal 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 Dam. 1	Eye Damage / Irritation Category 1
Eye Irrit. 2A	Eye Damage / Irritation Category 2A
Eye Irrit. 2B	Eye Damage / Irritation Category 2B
Flam. Liq. 2	Flammable Liquid, Hazard Category 2
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
Flam. Liq. 4	Flammable Liquid, Hazard Category 4
H225	Highly flammable liquid and vapour.
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.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.





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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H331	Toxic if inhaled.
H373	May cause damage to organs (organs) through prolonged or repeated exposure (exposure route).
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.
P260	Do not breathe vapour or dust.
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.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
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.





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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.
STOT RE 2	Specific Target Organ Toxicity (Repeated Exposure) Category 2
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.