SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: Compare to aroma JAMAICA ME CRAZY by AFI TOPSCENT ® F20934

Version: 4

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

1.1 Product Identifier

Product identifier: Compare to aroma JAMAICA ME CRAZY by AFI TOPSCENT ® F20934(Contains:Allyl heptanoate, Diphenyl ether, Linalool, 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 4
Acute Toxicity - Oral Category 5
Skin Corrosion / Irritation Category 2
Sensitization - Skin Category 1
Toxic to Reproduction Category 1BFd
Hazardous to the Aquatic Environment - Acute Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 2
H227, Combustible liquid.
H303, May be harmful if swallowed.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H360Fd, May damage fertility. Suspected of damaging the unborn child.
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:

H227, Combustible liquid.
H303, May be harmful if swallowed.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H360Fd, May damage fertility. Suspected of damaging the unborn child.
H400, Very toxic to aquatic life.
H411, Toxic to aquatic life with long lasting effects.

Precautionary statements:

P202, Do not handle until all safety precautions have been read and understood.
P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
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.
P302/352, IF ON SKIN: Wash with plenty of soap and water.
P312, Call a POISON CENTRE or doctor/physician if you feel unwell.
P308/313, IF exposed or concerned: 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:

2.3 Other hazards

Other hazards:

Hydrocarbon Concentration %: 9.6280%
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:

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Name	CAS	%	GHS Classification
gamma-Nonalactone	104-61-0	10-<20%	Aquatic Acute 3;H402
2-tert-Butylcyclohexyl acetate	88-41-5	10-<20%	Acute Tox. 5-Skin Irrit. 3-Aquatic Acute 2-Aquatic Chronic 2;H303-H316-H411
d-Limonene	5989-27-5	5-<10%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 3;H226-H304-H315-H317-H400-H412
alpha,alpha-Dimethylphenethyl butyrate	10094-34-5	1-<5%	Aquatic Acute 2-Aquatic Chronic 2;H411
gamma-Undecalactone	104-67-6	1-<5%	Aquatic Acute 2-Aquatic Chronic 3;H401-H412
Tricyclodecenyl acetate	5413-60-5	1-<5%	Acute Tox. 5-Skin Irrit. 3-Aquatic Acute 2;H303-H316-H401
Allyl heptanoate	142-19-8	1-<5%	Flam. Liq. 4-Acute Tox. 3-Acute Tox. 3-Aquatic Acute 1-Aquatic Chronic 2;H227-H301-H311-H400-H411
beta-Ionone	14901-07-6	1-<5%	Acute Tox. 5-Aquatic Acute 2-Aquatic Chronic 2;H303-H411
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-H319-H317-H402
Benzyl benzoate	120-51-4	1-<5%	Acute Tox. 4-Aquatic Acute 1-Aquatic Chronic 2;H302-H400-H411
Benzyl acetate	140-11-4	1-<5%	Acute Tox. 5-Aquatic Acute 2-Aquatic Chronic 3;H303-H401-H412
Ethyl hexanoate	123-66-0	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Aquatic Acute 2;H226-H315-H401
Butylated hydroxytoluene	128-37-0	1-<5%	Aquatic Acute 1-Aquatic Chronic 1;H410
Ethyl methylphenylglycidate	77-83-8	0.1-<1%	Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H317-H411
Diphenyl ether	101-84-8	0.1-<1%	Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2A-Repr. 1B-Aquatic Acute 1-Aquatic Chronic 3;H303-H316-H319-H360Fd-H400-H412
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

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: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

Skin exposure: IF ON SKIN: Wash with plenty of soap and water.

Ingestion: Rinse mouth with water and obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

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May be harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
May damage fertility. Suspected of damaging the unborn child.

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.

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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:	74 °C
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

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Density and/or relative density:	0.9230 - 0.9530
Relative vapour density:	Not determined
Particle characteristics:	Not determined

9.2 Other information:

Flash Point (Fahrenheit):	166 °F
Refractive Index @ 20C:	1.4545 - 1.4645
Color Range:	9 Yellow - 7 Yellow
Calculated VOC:	18.95

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:	Acute Toxicity - Oral Category 5
Acute Toxicity Oral	4835
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 2
Serious eye damage/irritation:	Based on available data the classification criteria are not met.
Respiratory or skin sensitisation:	Sensitization - Skin Category 1
Germ cell mutagenicity:	Based on available data the classification criteria are not met.

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Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive toxicity: Toxic to Reproduction Category 1BFd

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

Information about hazardous ingredients in the mixture

Ingredient	CAS	LD50/ATE Oral (mg/kg)	LD50/ATE Dermal (mg/kg)	LC50/ATE Inhalation	LC50 Route
2-tert-Butylcyclohexyl acetate	88-41-5	4600			
Allyl heptanoate	142-19-8	218	810		
Benzyl acetate	140-11-4	2490			
Benzyl benzoate	120-51-4	1160			
Linalool	78-70-6	2790			
Tricyclodecenyl acetate	5413-60-5	2750			
beta-Ionone	14901-07-6	3940			

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.

Section 14. Transport information

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	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. (Allyl heptanoate, 2-tert-Butylcyclohexyl acetate)	9	-	III
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl heptanoate, 2-tert-Butylcyclohexyl acetate) MARINE POLLUTANT	9	-	III
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl heptanoate, 2-tert-Butylcyclohexyl acetate)	9	-	III
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl heptanoate, 2-tert-Butylcyclohexyl acetate)	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

Essential Oil Components:

Name	CAS	%
Orange oil, sweet, terpenes	8028-48-6, 68647-72-3	5-<10%
Grapefruit oil	90045-43-5, 8016-20-4	1-<5%
Orange peel, sweet, oil	8028-48-6, 8008-57-9	0.1-<1%
Tangerine oil	93686-22-7, 8016-85-1	<0.1%
Patchouli oil	84238-39-1, 8014-09-3	<0.1%
Cedarwood oil, Virginian	85085-41-2, 8000-27-9	<0.1%
Fir needle oil, Siberian	91697-89-1, 8021-29-2	<0.1%
Guaiac wood oil	89958-10-1, 8016-23-7	<0.1%
Cedar leaf oil	90131-58-1, 8007-20-3	<0.1%
Bucchu oil, betulina	84649-93-4, 68650-46-4	<0.1%

Components listed on California's Proposition 65:

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Name	CAS	%
Myrcene	123-35-3	0.1-<1%

Proposition 65 listed chemical

Naturally-Occuring Materials exempt from Prop65:

Name	CAS	%
Myrcene	123-35-3	
Pulegone	89-82-7	

Components listed on California's SB312

Name	CAS	%
Di-(2-ethylhexyl) adipate	103-23-1	20-<50%
Linalool	78-70-6	1-<5%
Benzyl benzoate	120-51-4	1-<5%
Coumarin	91-64-5	0.1-<1%
Myrcene	123-35-3	<0.1%
alpha-iso-Methylionone	127-51-5	<0.1%
alpha-Hexylcinnamaldehyde	101-86-0	<0.1%
Eugenol	97-53-0	<0.1%

Section 16. Other information

Concentration % Limits: SCI 2=80.83% SCI 3=7.15% SS 1=10.39% REP 1BF_d=60.00% EH A1=56.93% EH A2=5.39% EH A3=0.53704764% EH C2=81.09% EH C3=7.76% EH C4=69.70%

Total Fractional Values: SCI 2=1.24 SCI 3=13.99 SS 1=9.63 REP 1BF_d=1.67 EH A1=1.76 EH A2=18.57 EH A3=186.20 EH C2=1.23 EH C3=12.89 EH C4=1.43

Key to revisions:

14.2. UN proper shipping name
2.1 Classification of the substance or mixture
Concentration % Limits
Hazardous Ingredients declard in a GHS Product Identifier
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

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Acute Tox. 3	Acute Toxicity - Oral Category 3
Acute Tox. 3	Acute Toxicity - Dermal Category 3
Acute Tox. 4	Acute Toxicity - Oral 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
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
Flam. Liq. 4	Flammable Liquid, Hazard Category 4
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic 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.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
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.
P202	Do not handle until all safety precautions have been read and understood.
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.

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P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308/313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTRE or doctor/physician 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.
P361	Remove/Take off immediately all contaminated clothing.
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.
Repr. 1B	Toxic to Reproduction Category 1BFd
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Irrit. 3	Skin Corrosion / Irritation Category 3
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.