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SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: Apple (Tart Granny Smith) Flavor 343135

Version: 3

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

1.1 Product Identifier

Product identifier: Apple (Tart Granny Smith) Flavor 343135

Other identifiers: None

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

- Product uses: Flavours
- 1.3 Details of the supplier of the safety data sheet

Company name:	Perfumer's Apprentice
Company address:	170 Technology Circle Scotts Valley CA 95066 USA
Contact:	Elisabeth Hanson
E-Mail address:	regulatory@perfumersapprentice.com
Company phone:	(831)316-7137
1.4 Emergency telepho	one number
Emergency phone:	ChemTel:1(800)255-3924, 01(813)248-0585 MIS6760377

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Class and category of danger:	Flammable Liquid, Hazard Category 3 Eye Damage / Irritation Category 2A Sensitization - Skin Category 1 Specific Target Organ Toxicity (Single Exposure) Category 2 H226, Flammable liquid and vapour. H317, May cause an allergic skin reaction. H319, Causes serious eye irritation. H371, May cause damage to organs (organs, exposure route).
2.2 Label elements	
Signal word:	Warning
Hazard statements:	H226, Flammable liquid and vapour. H317, May cause an allergic skin reaction. H319, Causes serious eye irritation. H371, May cause damage to organs (organs, exposure route).
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.



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	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.
	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.
	P280, Wear protective gloves/eye protection/face protection.
	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.
	P309/311, IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
	P333/313, If skin irritation or rash occurs: Get medical advice/attention.
	P337/313, If eye irritation persists: Get medical advice/attention.
	P363, Wash contaminated clothing before reuse.
	P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
	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.
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Pictograms:

2.3 Other hazards Other hazards:

Hydrocarbon Concentration %:

Section 3. Composition / information on ingredients

0.0000%

3.2 Mixtures

Contains:

Name	CAS	%	GHS Classification	
Ethyl alcohol	64-17-5	20-30%	Flam. Liq. 2-Eye Irrit. 2A;H225-H319	
Isoamyl acetate	123-92-2	5-10%	Flam. Liq. 3-Aquatic Acute 3;H226-H402	
Isobutyl acetate	110-19-0	<5% Flam. Liq. 2-STOT SE 3-Aquatic Acute 3;H225-H H402		
Acetoin	513-86-0	<5%	Flam. Liq. 3-Skin Irrit. 3;H226-H316	
Citric acid	77-92-9	<5%	Eye Irrit. 2A;H319	
Ethyl acetate	141-78-6	<5%	Flam. Liq. 2-Eye Irrit. 2A-STOT SE 3;H225-H319-H336	



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Hexanal	66-25-1	5-1 <5% Flam. Liq. 3-Skin Irrit. 3-Eye Irrit. 2A;H226-H316-		
Isoamyl isovalerate	659-70-1 <5% Flam. Liq. 4-Aquatic Chronic 2;H227-H411			
Acetyl propionyl	600-14-6	Flam. Liq. 2-Acute Tox. 5-Acute Tox. 5-Skin Irrit <1% Dam. 1-Skin Sens. 1B-STOT RE 2-Aquatic Acu H225-H303-H313-H316-H317-H318-H373-H402		

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 (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- **Ingestion:** Rinse mouth with water and obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause damage to organs (organs, exposure route).

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.



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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. 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):

Flavours: 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:	Not determined
Odour:	Not determined
Odour threshold:	Not determined



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pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	25.7 °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:	0.9600
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:	None available

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.



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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.
Acute Toxicity Oral	Not Applicable
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Based on available data the classification criteria are not met.
Serious eye damage/irritation:	Eye Damage / Irritation Category 2A
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:	Specific Target Organ Toxicity (Single Exposure) Category 2
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

Not Applicable

Refer to Sections 2 and 3 for additional information.

Section 12. Ecological information

12.1 Toxicity:	Not available
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.

		14.1 UN number:	· · · · · · · · · · · · · · · · · · ·	14.3 Transport hazard class (es):		14.4 Packing Group:
L	JN Model	UN1197	EXTRACTS, LIQUID	3	-	111

Section 14. Transport information



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Regulations					
IMDG	UN1197	EXTRACTS, LIQUID	3	-	111
ADR,RID,ADN	UN1197	EXTRACTS, LIQUID	3	-	
ICAO TI	UN1197	EXTRACTS, LIQUID	3	-	

14.5 Environmental hazards:

Not environmentally hazardous for transport

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

None additional

Section	16.	Other	information

Concentration % Limits:	EDI 2A=26.34%
Total Fractional Values:	EDI 2A=3.80

Key to revisions:

2.1 Classification of the substance or mixture

Key to abbreviations:

Abbreviation	Meaning		
Acute Tox. 5	Acute Toxicity - Oral Category 5		
Acute Tox. 5	Acute Toxicity - Dermal Category 5		
Aquatic Acute 3	Hazardous to the Aquatic Environment - Acute Hazard Category 3		
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2		
Eye Dam. 1	Eye Damage / Irritation Category 1		
Eye Irrit. 2A	Eye Damage / Irritation Category 2A		
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.		
H303	May be harmful if swallowed.		
H313	May be harmful in contact with skin.		
H316	Causes mild skin irritation.		
H317	May cause an allergic skin reaction.		



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H318	Causes serious eye damage.	
H319	Causes serious eye unitage. Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H373	May cause drowsmess of dizzmess. May cause damage to organs (organs) through prolonged or repeated exposure (exposure route).	
H402	Harmful to aquatic life.	
H411	Toxic 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.	
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.	
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.	
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.	
P363	Wash contaminated clothing before reuse.	
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.	
P391	Collect spillage.	
P403/233/235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.	
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	
STOT SE 3	Specific Target Organ Toxicity (Single Exposure) Category 3	
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.