

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

## 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 or 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:** +1 (831) 346 7234

### 1.4 Emergency telephone number

**Emergency phone:** +1 (831) 346 7234

## 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 2  
H226, Flammable liquid and vapour.  
H319, Causes serious eye irritation.

### 2.2 Label elements

**Signal word:** Warning

**Hazard statements:** H226, Flammable liquid and vapour.  
H319, Causes serious eye irritation.

**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.

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

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

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.

P337/313, If eye irritation persists: Get medical advice/attention.

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.

P403/235, Store in a well-ventilated place. Keep cool.

P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Pictograms:**



**Other hazards:** None

### Section 3. Composition / information on ingredients

#### 3.2 Mixtures

**Contains:**

Name	CAS	EC	%	GHS Classification
Ethyl alcohol	64-17-5	200-578-6	20-<50%	FL 2-EDI 2A;H225-H319
Isobutyl acetate	110-19-0	203-745-1	1-<5%	FL 2-STO-SE 3(NE);H225-H336
Citric acid	77-92-9	201-069-1	1-<5%	EDI 2A;H319
Ethyl acetate	141-78-6	205-500-4	1-<5%	FL 2-EDI 2A-STO-SE 3(NE);H225-H319-H336
Hexanal	66-25-1	200-624-5	1-<5%	FL 3-EDI 2A;H226-H319
Acetyl propionyl	600-14-6	209-984-8	0.1-<1%	FL 2-EDI 1-SS 1B-STO-RE 2;H225-H317-H318-H373

The exact percentage concentrations of components are being withheld as a trade secret.

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

Name	CAS	EC	%
Ethyl acetate	141-78-6	205-500-4	1-5%
Ethyl alcohol	64-17-5	200-578-6	10-30%
Isobutyl acetate	110-19-0	203-745-1	1-5%
Propylene glycol	57-55-6	200-338-0	40-50%

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

## Section 4. First-aid measures

### 4.1 Description of first aid measures

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

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

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

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.

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

### 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:

Ground/bond container and receiving 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:

Ingredient	CAS	EC	Description	ppm	mg/m <sup>3</sup>	Reference
Ethyl acetate	141-78-6	205-500-4	Long-term exposure limit (8-hour TWA reference period)	-	-	-
			Short-term exposure limit (15-minute reference period)	-	-	-
Ethyl alcohol	64-17-5	200-578-6	Long-term exposure limit (8-hour TWA reference period)	-	-	-
			Short-term exposure limit (15-minute reference period)	-	-	-
Isobutyl acetate	110-19-0	203-745-1	Long-term exposure limit (8-hour TWA reference period)	-	-	-
			Short-term exposure limit (15-minute reference period)	-	-	-
Propylene glycol	57-55-6	200-338-0	Long-term exposure limit (8-hour TWA reference period)	-	-	-
			Short-term exposure limit (15-minute reference period)	-	-	-

#### 8.2 Exposure Controls

##### Eye / Skin Protection

Wear protective gloves/eye protection/face protection

##### Respiratory Protection

Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) Isolate mixing rooms and other

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. b) Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters. c) Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. d) 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

**pH:** Not determined

**Initial boiling point / range:** Not determined

**Flash point:** 25.7 °C

**Vapour pressure:** Not determined

**Relative density:** 0.9600

**Solubility(ies):** Not determined

**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.

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

## 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 29 CFR 1910.1200.

Causes serious eye irritation.

<b>Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity:</b>	Not Applicable
<b>Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity:</b>	Not Applicable
<b>Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity:</b>	Not Available
<b>Inhalation Route:</b>	Not Available

### 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 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 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:** UN1197

**14.2 UN Proper Shipping Name:** EXTRACTS, FLAVOURING, LIQUID

**14.3 Transport hazard class(es):** 3

**Sub Risk:** -

**14.4. Packing Group:** III

**14.5 Environmental hazards:** Not environmentally hazardous for transport

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

**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

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

None additional

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

### Section 16. Other information

**Concentration % Limits:** EDI 2=26.34%

**Total Fractional Values:** EDI 2=3.80

**Key to revisions:**

Not applicable

**Key to abbreviations:**

Abbreviation	Meaning
EDI 1	Eye Damage / Irritation Category 1
EDI 2A	Eye Damage / Irritation Category 2A
FL 2	Flammable Liquid, Hazard Category 2
FL 3	Flammable Liquid, Hazard Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs (organs) through prolonged or repeated exposure (exposure route).
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.

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Apple (Tart Granny Smith) Flavor 343135

**Version:** 1

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.
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.
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.
P403/233/235	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.
SS 1B	Sensitization - Skin Category 1B
STO-RE 2	Specific Target Organ Toxicity (Repeated Exposure) Category 2
STO-SE 3(NE)	Specific Target Organ Toxicity (Single Exposure) Category 3

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.