

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

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

### 1.1 Product Identifier

**Product identifier:** Strawberry Flavor Concentrate 232V01

**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:** (831)316-7137

### 1.4 Emergency telephone 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  
Acute Toxicity - Oral Category 4  
Skin Corrosion / Irritation Category 1B  
Skin Corrosion / Irritation Category 1C  
Eye Damage / Irritation Category 1  
Sensitization - Skin Category 1  
Aspiration Hazard Category 1  
H226, Flammable liquid and vapour.  
H302, Harmful if swallowed.  
H304, May be fatal if swallowed and enters airways.  
H314, Causes severe skin burns and eye damage.  
H317, May cause an allergic skin reaction.

### 2.2 Label elements

**Signal word:** Danger

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

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H302, Harmful if swallowed.  
H304, May be fatal if swallowed and enters airways.  
H314, Causes severe skin burns and eye damage.  
H317, May cause an allergic skin reaction.

**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.  
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.  
P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301/330/331, If swallowed: Rinse mouth. Do not induce vomiting.  
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.  
P330, Rinse mouth.  
P331, Do not induce vomiting.  
P333/313, If skin irritation or rash occurs: 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.

**Pictograms:**



**Other hazards:** None

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

## Section 3. Composition / information on ingredients

### 3.2 Mixtures

#### Contains:

Name	CAS	EC	%	GHS Classification
d-Limonene	5989-27-5	227-813-5	20-<50%	FL 3-SCI 2-SS 1B-AH 1;H226-H304-H315-H317
2-Methylbutyric acid	116-53-0	204-145-2	5-<10%	FL 4-ATO 4-ATD 4-SCI 1B-EDI 1;H227-H302-H312-H314
4-Hydroxy-2,5-dimethyl-3(2H)-furanone	3658-77-3	222-908-8	1-<5%	EDI 2A-SS 1A;H317-H319
Ethyl methylphenylglycidate	77-83-8	201-061-8	1-<5%	SS 1B;H317
Geraniol	106-24-1	203-377-1	1-<5%	SCI 2-EDI 1-SS 1;H315-H317-H318
Hexyl alcohol	111-27-3	203-852-3	1-<5%	FL 3-ATO 4-ATD 4-EDI 2A;H226-H302-H312-H319
Methyl cinnamate	103-26-4	203-093-8	1-<5%	SS 1B;H317
cis-3-Hexenol	928-96-1	213-192-8	1-<5%	FL 3-EDI 2A;H226-H319

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

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

Not Applicable

## Section 4. First-aid measures

### 4.1 Description of first aid measures

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

If swallowed: Rinse mouth. Do not induce vomiting.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Immediately call a POISON CENTER or doctor/physician.

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

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes severe skin burns and eye damage.

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.

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

### 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. Do not eat, drink or smoke when using this product.

#### 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:** Not Applicable

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

### 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

**pH:** Not determined

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

**Flash point:** 36.67 °C

**Vapour pressure:** Not determined

**Relative density:** Not determined

**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.

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

### 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 29 CFR 1910.1200.

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

**Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity:** >5000

**Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity:** >5000

**Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity:** Not Available

**Inhalation Route:** Not Available

#### Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
2-Methylbutyric acid	116-53-0	204-145-2	1760	1600	Not available	Not available
Hexyl alcohol	111-27-3	203-852-3	500	1750	Not available	Not available

Refer to Sections 2 and 3 for additional information.

### Section 12. Ecological information

#### 12.1 Toxicity:

Very 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 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

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

## 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, FLAVORING, LIQUID  
**14.3 Transport hazard class(es):** 3  
**Sub Risk:**  
**14.4. Packing Group:** III  
**14.5 Environmental hazards:** This is an environmentally hazardous substance.  
**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:** SCI 1B=71.43% SCI 1C=71.43% SCI 2=8.26% EDI 1=30.00% EDI 2=9.17% SS 1=2.08% AH 1=20.83%  
**Total Fractional Values:** SCI 1B=1.40 SCI 1C=1.40 SCI 2=12.10 EDI 1=3.33 EDI 2=10.90 SS 1=48.00 AH 1=4.80

### Key to revisions:

14.1. UN number  
14.2. UN proper shipping name  
14.3. Transport hazard class(es)  
14.3. Transport hazard class(es)  
14.4. Packing group  
2.1 Classification of the substance or mixture  
Concentration % Limits  
Information about hazardous ingredients in the mixture  
SECTION 3: Composition/information on ingredients

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

Total Fractional Values

**Key to abbreviations:**

Abbreviation	Meaning
AH 1	Aspiration Hazard Category 1
ATD 4	Acute Toxicity - Dermal Category 4
ATO 4	Acute Toxicity - Oral Category 4
EDI 1	Eye Damage / Irritation Category 1
EDI 2A	Eye Damage / Irritation Category 2A
FL 3	Flammable Liquid, Hazard Category 3
FL 4	Flammable Liquid, Hazard Category 4
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
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.
P301/330/331	If swallowed: Rinse mouth. Do not induce vomiting.
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.



## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Strawberry Flavor Concentrate 232V01

**Version:** 2

P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
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.
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.
SCI 1B	Skin Corrosion / Irritation Category 1B
SCI 2	Skin Corrosion / Irritation Category 2
SS 1	Sensitization - Skin Category 1
SS 1A	Sensitization - Skin Category 1A
SS 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.