

In accordance with REACH Regulation EC No.1907/2006

Product: Strawberry Flavor Concentrate 232V01

Version:

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

1.1 Product Identifier

 

 Product identifier:
 Strawberry Flavor Concentrate 232V01(Contains:2-Methylbutyric acid, 4-Hydroxy-2,5-dimethyl-3(2H)-furanone, Methyl cinnamate, d-Limonene)

 Other identifiers:
 None

Ourer identifiers. None

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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 telephor	ne 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

### Classification under Regulation (EC) No 1272/2008

Class and category of danger:	Flammable Liquid, Hazard Category 3 Acute Toxicity - Oral Category 4 Skin Corrosion / Irritation Category 1B Eye Damage / Irritation Category 1 Sensitization - Skin Category 1 Aspiration Hazard Category 1 Hazardous to the Aquatic Environment - Acute Hazard Category 1 Hazardous to the Aquatic Environment - Long-term 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.



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2.2 Label elements

Signal word: Danger Hazard statements: 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. H410, Very toxic to aquatic life with long lasting effects. Supplemental EUH208, Contains Ethyl methylphenylglycidate, Geraniol. May produce an allergic reaction. Information: Precautionary P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking. statements: 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. 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. P301/330/331, 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. 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.



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### Section 3. Composition / information on ingredients

### 3.2 Mixtures

#### Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008
d-Limonene	5989-27-5	227-813-5		40-50%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
2-Methylbutyric acid	116-53-0	204-145-2		1-10%	ATO 4-ATD 4-SCI 1B- EDI 1;H302-H312- H314,-
4-Hydroxy-2,5-dimethyl- 3(2H)-furanone	3658-77-3	222-908-8		1-5%	EDI 2-SS 1A;H317- H319,-
Ethyl methylphenylglycidate	77-83-8	201-061-8		1-5%	SS 1B-EH C2;H317- H411,-
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 2;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 2;H226-H319, -

Substances with Community workplace exposure limits:

Not Applicable

Substances that are persistent, bioaccumulative and toxic or very persistent and very bioaccumulative, greater than 0.1%:

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.



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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.

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### 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.



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### Section 7. Handling and storage

### 7.1 Precautions for safe handling:

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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

#### **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
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	36.67 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard



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Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	Not determined
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 Regulation (EC) No 1272/2008 (CLP).

Acute Toxicity:	Acute Toxicity - Oral Category 4
Acute Toxicity Oral	>5000
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 1B



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Serious eye damage/irritation:	Eye Damage / Irritation Category 1
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:	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:	Aspiration Hazard Category 1

### 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	INOT 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

### 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



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Sub Risk:

14.4. Packing Group:

This is an environmentally hazardous substance.

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14.5 Environmental hazards:

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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:	EH A1=52.08% EH C1=52.08% EH C2=5.18% EH C3=0.51759834% EH C4=49.02% 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:	EH A1=1.92 EH C1=1.92 EH C2=19.32 EH C3=193.20 EH C4=2.04 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

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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
Classification under Regulation (EC) No 1272/2008
Classification under Regulation (EC) No 1272/2008
Concentration % Limits
Information about hazardous ingredients in the mixture
Product identifier
SECTION 3: Composition/information on ingredients
Total Fractional Values
Workplace exposure limits

### 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



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EDI 1 Eye Damage / Irritation Category 1 EDI 2 Eye Damage / Irritation Category 2 EH A1 Hazardous to the Aquatic Environment - Acute Hazard Category 1 EH C1 Hazardous to the Aquatic Environment - Long-term Hazard Category 1 Hazardous to the Aquatic Environment - Long-term Hazard Category 2 EH C2 FL 3 Flammable Liquid, Hazard Category 3 H226 Flammable liquid and vapour. 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. H410 Very toxic to aquatic life with long lasting effects. 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. 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. P301/330/331 If swallowed: Rinse mouth. Do not induce vomiting IF ON SKIN: Wash with plenty of soap and water. P302/352 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to P305/351/338 do. Continue rinsing P310 Immediately call a POISON CENTER or doctor/physician. 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.



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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.
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.
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.