

Version: 2 (11/04/2021)

# **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Boysenberry Flavor 343723

Version: 2

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

#### 1.1 Product Identifier

Boysenberry Flavor 343723(Contains:4-Hydroxy-2,5-dimethyl-3(2H)-furanone, Benzaldehyde, **Product identifier:** 

Ethyl acetate, Ethyl methylphenylglycidate)

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

(831)316-7137 Company phone: 1.4 Emergency telephone number

ChemTel:1(800)255-3924, 01(813)248-0585 MIS6760377 **Emergency phone:** 

# Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

danger:

Class and category of Flammable Liquid, Hazard Category 3

Eye Damage / Irritation Category 2 Sensitization - Skin Category 1 H226, Flammable liquid and vapour.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

#### 2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Warning

**Hazard statements:** H226, Flammable liquid and vapour.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.



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Supplemental Information:

EUH208, Contains d-Limonene. May produce an allergic 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.

P261, Avoid breathing vapour or dust.

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

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.

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.

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

regulations.





#### 2.3 Other hazards

Other hazards: None

## Section 3. Composition / information on ingredients

#### 3.2 Mixtures

#### Contains:

| Name CAS EC | REACH Registration No. |  | Classification for (CLP) 1272/2008 |
|-------------|------------------------|--|------------------------------------|
|-------------|------------------------|--|------------------------------------|



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| Benzaldehyde                          | 100-52-7  | 202-860-4 |   | 1-10% | Acute Tox. 4-Acute<br>Tox. 4-Eye Irrit. 2-<br>STOT SE 3;H302-<br>H319-H332-H335,-  |
|---------------------------------------|-----------|-----------|---|-------|--|
| Ethyl<br>methylphenylglycidate        | 77-83-8   | 201-061-8 | 1 | 1-10% | Skin Sens. 1B-Aquatic<br>Chronic 2;H317-H411,-   |
| Ethyl acetate                         | 141-78-6  | 205-500-4 |   | 1-10% | Flam. Liq. 2-Eye Irrit. 2-<br>STOT SE 3;H225-<br>H319-H336,EUH066  |
| 3-Hexen-1-ol (isomer unspecified)     | 544-12-7  | 208-860-0 |   |       | Flam. Liq. 3-Eye Irrit. 2;<br>H226-H319,-  |
| Ethyl isovalerate                     | 108-64-5  | 203-602-3 | 1 | 1-10% | Flam. Liq. 3-Skin Irrit.<br>2;H226-H315,-  |
| 4-Hydroxy-2,5-dimethyl-3(2H)-furanone | 3658-77-3 | 222-908-8 |   | 1-10% | Acute Tox. 4-Eye Dam.<br>1-Skin Sens. 1A;H302-<br>H317-H318,-  |
| I-Linalool                            | 126-91-0  | 204-811-2 | 1 | 1-10% | Skin Irrit. 2-Eye Irrit. 2;<br>H315-H319,-   |
| Linalyl acetate                       | 115-95-7  | 204-116-4 | 1 | 1-10% | Skin Irrit. 2-Eye Irrit. 2;<br>H315-H319,-   |
| d-Limonene                            | 5989-27-5 | 227-813-5 | 4 | <1%   | Flam. Liq. 3-Skin Irrit.<br>2-Skin Sens. 1B-Asp.<br>Tox 1-Aquatic Acute 1-<br>Aquatic Chronic 1;<br>H226-H304-H315-<br>H317-H410,- |

# **Substances with Community workplace exposure limits:**

| Name             | CAS      | EC        | REACH Registration No. | %      | Classification for (CLP) 1272/2008                                |
|------------------|----------|-----------|------------------------|--------|---|
| Ethyl acetate    | 141-78-6 | 205-500-4 |                        | 1-10%  | Flam. Liq. 2-Eye Irrit. 2-<br>STOT SE 3;H225-<br>H319-H336,EUH066 |
| Propylene glycol | 57-55-6  | 200-338-0 |                        | 50-60% | -;-,-   |

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

**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.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.





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# **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.

# 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.



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## Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limits:

| Ingredient               | CAS       | EC                    | Description           | Value |
|--------------------------|-----------|-----------------------|-----------------------|-------|
| Ethyl gostate            | 141-78-6  | 205-500-4             | UK WEL Long term ppm  | 200   |
| Ethyl acetate 1          | 141-76-0  |                       | UK WEL Short term ppm | 400   |
| Propylene glycol 57-55-6 | 200-338-0 | UK WEL Long term mgm3 | 474                   |       |
|                          | 57-55-6   |                       | UK WEL Long term ppm  | 150   |

#### **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 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 **Odour threshold:** Not determined pH: Not determined Melting point / freezing point: Not determined Initial boiling point / range: Not determined

31.11 °C Flash point:

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

Acute Toxicity Oral >5000

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 2
Respiratory or skin sensitisation: Sensitization - Skin Category 1



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Germ cell mutagenicity:

Based on available data the classification criteria are not met.

Reproductive toxicity:

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

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#### Information about hazardous ingredients in the mixture

| Ingredient   | CAS      | EC        | LD50/ATE Oral | LD50/ATE<br>Dermal | LC50/ATE<br>Inhalation | LC50<br>Route |
|--------------|----------|-----------|---------------|--------------------|------------------------|---------------|
| Benzaldehyde | 100-52-7 | 202-860-4 | 1430          | Not available      | 1.5                    | Dust/mist     |

Refer to Sections 2 and 3 for additional information.

#### Section 12. Ecological information

12.1 Toxicity:Not available12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 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:

**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





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# **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 C3=22.64% EDI 2=25.19% SS 1=5.00%

Total Fractional Values: EH C3=4.42 EDI 2=3.97 SS 1=20.00

**Key to revisions:** 

Classification under Regulation (EC) No 1272/2008

Concentration % Limits

Information about hazardous ingredients in the mixture

SECTION 3: Composition/information on ingredients

**Total Fractional Values** 

Workplace exposure limits

# Key to abbreviations:

| Abbreviation      | Meaning  |  |
|-------------------|--|--|
| Acute Tox. 4      | Acute Toxicity - Oral Category 4                                   |  |
| Acute Tox. 4      | Acute Toxicity - Inhalation Category 4                             |  |
| Aquatic Acute 1   | Hazardous to the Aquatic Environment - Acute Hazard Category 1     |  |
| 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 |  |
| Asp. Tox 1        | Aspiration Hazard Category 1                                       |  |
| EUH066            | Repeated exposure may cause skin dryness or cracking.              |  |
| Eye Dam. 1        | Eye Damage / Irritation Category 1                                 |  |
| Eye Irrit. 2      | Eye Damage / Irritation Category 2                                 |  |
| Flam. Liq. 2      | Flammable Liquid, Hazard Category 2                                |  |
| Flam. Liq. 3      | Flammable Liquid, Hazard Category 3                                |  |
| H225              | Highly flammable liquid and vapour.                                |  |
| H226              | Flammable liquid and vapour.                                       |  |
| H302              | Harmful if swallowed.  |  |
| H304              | May be fatal if swallowed and enters airways.                      |  |
| H315              | Causes skin irritation.  |  |
| H317              | May cause an allergic skin reaction.                               |  |
| H318              | Causes serious eye damage.   |  |
| H319              | Causes serious eye irritation.                                     |  |
| H332              | Harmful if inhaled.  |  |



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| LIDOS         | Many and a manufacture invitation  |
|---------------|--|
| H335          | May cause respiratory irritation.  |
| H336          | May cause drowsiness or dizziness.   |
| 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.  |
| 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.  |
| 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.   |
| 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.                       |
| 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.   |
| 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.  |
| 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.  |
| P403/233/235  | 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 SE 3     | Specific Target Organ Toxicity (Single Exposure) Category 3  |
| STOT SE 3     | Specific Target Organ Toxicity (Single Exposure) Category 3  |
| Skin Irrit. 2 | Skin Corrosion / Irritation Category 2   |
|               |  |



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| Skin Sens. 1A | Sensitization - Skin Category 1A |
|---------------|----------------------------------|
| 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.