SAFETY DATA SHEET
Boysenberry Flavor

Printed: 01/27/2016
Revision: 03/24/2014

1. Product and Company Identification

Product Code: 343723
Product Name: Boysenberry Flavor
Trade Name: Boysenberry Flavor

Company Name: Perfumer's Apprentice
170 Technology Circle
Scotts Valley, CA 95066
Phone Number: (831)316-7137
Web site address: Perfumersapprentice.com
Emergency Contact: Chem-Tel Phone (800)255-3924

2. Hazards Identification

Flammable Liquids, Category 3
Skin Corrosion/Irritation, Category 3
Skin Sensitization, Category 1
Serious Eye Damage/Eye Irritation, Category 2B

GHS Signal Word: **Warning**

GHS Hazard Phrases:
H226: Flammable liquid and vapor.
H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.
H320: Causes eye irritation.

GHS Precaution Phrases:
P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
P233: Keep container tightly closed.
P241: Use explosion-proof electrical/ventilating/lighting/{.../} equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.
P264: Wash {hands} thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:
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.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment {see ... on this label}.
P332+313: If skin irritation occurs, get medical advice/attention.
P333+313: If skin irritation or rash occurs, seek medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:
P403+235: Store in cool/well-ventilated place.
P501: Dispose of contents/container to {...}.

Potential Health Effects (Acute and Chronic):

Inhalation: Low hazard for normal industrial handling. Inhalation of a mist of this material may cause respiratory tract irritation.

Skin Contact: May be absorbed through damaged or abraded skin in harmful amounts.

Eye Contact: May cause slight transient injury. Vapors may cause eye irritation. Causes severe eye irritation.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
57-55-6	Propylene glycol	49.0 -55.0 %
123-92-2	Iso-Amyl acetate	0.5 -1.5 %
77-83-8	Oxiranecarboxylic acid, 3-Methyl-3-phenyl-, ethyl ester	8.0 -9.0 %
100-52-7	Benzaldehyde	8.0 -9.0 %
141-78-6	Acetic acid, ethyl ester	4.0 -5.0 %
141-97-9	Ethyl acetoacetate	2.5 -3.5 %
105-54-4	Ethyl butyrate	5.0 -6.0 %
108-64-5	Ethyl isovalerate	2.0 -3.0 %
126-91-0	1,6-Octadien-3-ol, 3,7-dimethyl-, (R)-	1.0 -1.5 %
115-95-7	Linalyl acetate	1.0 -1.5 %
68916-89-2	Oils, lemon, psoralen-free	0.3 %
544-12-7	Hex - 3 - en - 1 - ol	2.5 -3.5 %
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	1.0 -2.0 %

4. First Aid Measures

Emergency and First Aid Procedures: No data available.

In Case of Inhalation: If breathed in, move person into fresh air.

In Case of Skin Contact: In case of contact, flush skin with plenty of water.

In Case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

In Case of Ingestion: Clean mouth with water and drink plenty of water.

Signs and Symptoms Of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note to Physician: Persons with impaired kidney function may be more susceptible to the effects of this substance. Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: 33.88 C

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Ensure adequate ventilation.

Steps To Be Taken In Case Material Is Released Or Spilled: Dike to collect large liquid spills.

7. Handling and Storage

Precautions To Be Taken in Handling: Wash thoroughly after handling.

Precautions To Be Taken in Storing: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
57-55-6	Propylene glycol	No data.	No data.	No data.
123-92-2	Iso-Amyl acetate	PEL: 100 ppm	TLV: 50 ppm STEL: 100 ppm	No data.
77-83-8	Oxiranecarboxylic acid, 3-Methyl-3-phenyl-, ethyl ester	No data.	No data.	No data.
100-52-7	Benzaldehyde	No data.	No data.	No data.
141-78-6	Acetic acid, ethyl ester	PEL: 400 ppm	TLV: 400 ppm	No data.
141-97-9	Ethyl acetoacetate	No data.	No data.	No data.
105-54-4	Ethyl butyrate	No data.	No data.	No data.
108-64-5	Ethyl isovalerate	No data.	No data.	No data.
126-91-0	1,6-Octadien-3-ol, 3,7-dimethyl-, (R)-	No data.	No data.	No data.
115-95-7	Linalyl acetate	No data.	No data.	No data.
68916-89-2	Oils, lemon, psoralen-free	No data.	No data.	No data.
544-12-7	Hex - 3 - en - 1 - ol	No data.	No data.	No data.
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	No data.	No data.	No data.

Respiratory Equipment (Specify Type):	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Eye Protection:	Safety glasses.
Protective Gloves:	No data available.
Other Protective Clothing:	Wear suitable protective clothing.
Engineering Controls (Ventilation etc.):	Safety shower and eye bath.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	Transparent yellow liquid. Boysenberry taste and aroma.
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	33.88 C
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.0078 at 22.0 C
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	No data.
Solubility Notes:	SOLUBLE IN ORGANIC SOLVENTS.
Percent Volatile:	No data.

10. Stability and Reactivity

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	No data available.
Incompatibility - Materials To Avoid:	No data available.
Hazardous Decomposition Or Byproducts:	No data available.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information: This mixture has not been subjected to toxicological testing but has been blended from materials with established toxicological bibliographies. In view of the difficulty of using current standard toxicological evaluation techniques to predict potential hazards to susceptible individuals or arising from unforeseeable potentiation, this preparation should be considererd and handled as if it displayed health hazards and consequently treated with all possible precaution.

Sensitization: No data available.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information: This mixture as a whole has not been subjected to ecotoxicological testing. In view of the difficulty of using current standard ecotoxicological evaluation techniques to predict the impact of particular modes of release on vulnerable or localized parts of the ecosystem, this preparation should be considered and handled as if it displayed potential environmental hazards, and treated in consequence with all possible precaution.

13. Disposal Considerations

Waste Disposal Method: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

14. Transport Information

GHS Classification: Flammable Liquids, Category 3 - Warning! Flammable liquid and vapor
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not Regulated.
UN Number:
Hazard Class:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
57-55-6	Propylene glycol	No	No	No
123-92-2	Iso-Amyl acetate	No	Yes 5000 LB	No
77-83-8	Oxiranecarboxylic acid, 3-Methyl-3-phenyl-, ethyl ester	No	No	No
100-52-7	Benzaldehyde	No	No	No
141-78-6	Acetic acid, ethyl ester	No	Yes 5000 LB	No
141-97-9	Ethyl acetoacetate	No	No	No
105-54-4	Ethyl butyrate	No	No	No
108-64-5	Ethyl isovalerate	No	No	No
126-91-0	1,6-Octadien-3-ol, 3,7-dimethyl-, (R)-	No	No	No
115-95-7	Linalyl acetate	No	No	No
68916-89-2	Oils, lemon, psoralen-free	No	No	No
544-12-7	Hex - 3 - en - 1 - ol	No	No	No
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:	[X] Yes	[ ] No	Acute (immediate) Health Hazard
	[X] Yes	[ ] No	Chronic (delayed) Health Hazard
	[X] Yes	[ ] No	Fire Hazard
	[ ] Yes	[X] No	Sudden Release of Pressure Hazard
	[ ] Yes	[X] No	Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
57-55-6	Propylene glycol	
123-92-2	Iso-Amyl acetate	
77-83-8	Oxiranecarboxylic acid, 3-Methyl-3-phenyl-, ethyl ester	
100-52-7	Benzaldehyde	
141-78-6	Acetic acid, ethyl ester	
141-97-9	Ethyl acetoacetate	
105-54-4	Ethyl butyrate	
108-64-5	Ethyl isovalerate	
126-91-0	1,6-Octadien-3-ol, 3,7-dimethyl-, (R)-	
115-95-7	Linalyl acetate	
68916-89-2	Oils, lemon, psoralen-free	
544-12-7	Hex - 3 - en - 1 - ol	
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
57-55-6	Propylene glycol	REACH: (R), (P)
123-92-2	Iso-Amyl acetate	REACH: (R), (P)
77-83-8	Oxiranecarboxylic acid, 3-Methyl-3-phenyl-, ethyl ester	REACH: (R), (P)
100-52-7	Benzaldehyde	REACH: (R), (P)
141-78-6	Acetic acid, ethyl ester	REACH: (R), (P)
141-97-9	Ethyl acetoacetate	REACH: (R), (P)
105-54-4	Ethyl butyrate	REACH: (P)

108-64-5	Ethyl isovalerate	REACH: (P)
126-91-0	1,6-Octadien-3-ol, 3,7-dimethyl-, (R)-	REACH: (P)
115-95-7	Linalyl acetate	REACH: (R), (P)
68916-89-2	Oils, lemon, psoralen-free	REACH: (P)
544-12-7	Hex - 3 - en - 1 - ol	REACH: (P)
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	REACH: (P)

16. Other Information

Revision Date: 03/24/2014

Additional Information About This Product: This product contains no added diacetyl as an ingredient. However, because diacetyl can occur in small amounts as an artifact of the production process in other ingredients, "No Added Diacetyl" products may not be "Diacetyl Free", as trace amounts may be present.

Company Policy or Disclaimer: The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification . The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process, unless specified in the text .