SAFETY DATA SHEET
Ripe Banana Flavor

Printed: 01/27/2016
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1. Product and Company Identification

Product Code: 308394R
Product Name: Ripe Banana 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 4
Skin Corrosion/Irritation, Category 3
Skin Sensitization, Category 1

GHS Signal Word: **Warning**

GHS Hazard Phrases:
Combustible liquid.
Causes mild skin irritation.
May cause an allergic skin reaction.

GHS Precaution Phrases:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:
IF ON SKIN: Wash with plenty of soap and water.
Specific treatment see ... on this label.
If skin irritation occurs, get medical advice/attention.
If skin irritation or rash occurs, seek medical advice/attention.
Take off contaminated clothing and wash it before reuse.
In case of fire, use ... to extinguish.

GHS Storage and Disposal Phrases:
Store in cool/well-ventilated place.
Dispose of contents/container to ...

Potential Health Effects (Acute and Chronic):

Inhalation: May be harmful if inhaled.
Skin Contact: Causes skin irritation.
Eye Contact: Causes eye irritation.
Ingestion: May be harmful if swallowed.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
57-55-6	Propylene glycol	45.0 -55.0 %
64-17-5	Ethyl alcohol	7.0 -13.0 %
111-12-6	Methyl 2-octynoate	< 0.5 %
75-07-0	Acetaldehyde	< 0.7 %
5392-40-5	Citral	< 0.5 %
123-92-2	Iso-Amyl acetate	22.0 %

659-70-1	3 - Methylbutyl isovalerate	14.0 %
68916-89-2	Oils, lemon, psoralen-free	< 1.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

In Case of Skin Contact: Wash off with soap and plenty of water.

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

In Case of Ingestion: Wash mouth out with 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: 152.00 F

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: Wear self contained breathing apparatus for fire fighting if necessary. 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: Container explosion may occur under fire conditions.

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: Handle in accordance with good industrial hygiene and safety practice.

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

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.
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm	No data.
111-12-6	Methyl 2-octynoate	No data.	No data.	No data.
75-07-0	Acetaldehyde	PEL: 200 ppm	CEIL: 25 ppm	No data.
5392-40-5	Citral	No data.	No data.	No data.

123-92-2	Iso-Amyl acetate	PEL: 100 ppm	TLV: 50 ppm STEL: 100 ppm	No data.
659-70-1	3 - Methylbutyl isovalerate	No data.	No data.	No data.
68916-89-2	Oils, lemon, psoralen-free	No data.	No data.	No data.

Respiratory Equipment (Specify Type): A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves: Handle with gloves.

Other Protective Clothing: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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.
Banana-like odor.

Melting Point: No data.

Boiling Point: No data.

Autoignition Pt: No data.

Flash Pt: 152.00 F

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

Specific Gravity (Water = 1): 0.939 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.

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 4 - Warning! Combustible liquid
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction

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
64-17-5	Ethyl alcohol	No	No	No
111-12-6	Methyl 2-octynoate	No	No	No
75-07-0	Acetaldehyde	No	Yes 1000 LB	Yes
5392-40-5	Citral	No	No	No
123-92-2	Iso-Amyl acetate	No	Yes 5000 LB	No
659-70-1	3 - Methylbutyl isovalerate	No	No	No
68916-89-2	Oils, lemon, psoralen-free	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	
64-17-5	Ethyl alcohol	
111-12-6	Methyl 2-octynoate	
75-07-0	Acetaldehyde	CA PROP.65
5392-40-5	Citral	
123-92-2	Iso-Amyl acetate	
659-70-1	3 - Methylbutyl isovalerate	
68916-89-2	Oils, lemon, psoralen-free	

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
57-55-6	Propylene glycol	REACH: (R), (P)
64-17-5	Ethyl alcohol	REACH: (R), (P)
111-12-6	Methyl 2-octynoate	REACH: (P)
75-07-0	Acetaldehyde	REACH: (R), (P)
5392-40-5	Citral	REACH: (R), (P)
123-92-2	Iso-Amyl acetate	REACH: (R), (P)
659-70-1	3 - Methylbutyl isovalerate	REACH: (P)
68916-89-2	Oils, lemon, psoralen-free	REACH: (P)

16. Other Information

Revision Date:	03/26/2014
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 .