

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** 346852
Product Name: Bitter Nut Extra Flavor
Trade Name: Bitter Nut Extra Flavor
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**

Company Name: Perfumer's Apprentice
170 Technology Circle
Scotts Valley, CA 95066
Phone Number: (831)316-7137

Web site address: Perfumersapprentice.com
Information: Contract #: MIS6760377

- 1.4 Emergency telephone number:**
Emergency Contact: Chem-Tel Phone (800)255-3924
01 (813)248-0585

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**
Skin Corrosion/Irritation, Category 3
Flammable Liquids, Category 4
Serious Eye Damage/Eye Irritation, Category 2
Skin Sensitization, Category 1
Acute Toxicity: Inhalation, Category 4
- 2.1.2 Classification according to Directive 1999/45/EC:**
- 2.2 Label Elements:**
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:**



GHS Signal Word: Warning

GHS Hazard Phrases:

Combustible liquid.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.

GHS Precaution Phrases:

Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
Avoid breathing {dust/fume/gas/mist/vapors/spray}.
Wash {hands} thoroughly after handling.
Use only outdoors or in a well-ventilated area.
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.

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.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment {see ... on this label}.

If skin irritation occurs, get medical advice/attention.

If skin irritation or rash occurs, seek medical advice/attention.

If eye irritation persists, get medical advice/attention.

Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases:

Store in cool/well-ventilated place.

Dispose of contents/container to {...}.

2.2.2 Labeling according to Directive 1999/45/EC:

2.3 Adverse Human Health

Effects and Symptoms:

2.3.1 Inhalation: May be harmful if inhaled.

2.3.2 Skin Contact: May cause skin irritation.

2.3.3 Eye Contact: May cause eye irritation.

2.3.4 Ingestion: May be harmful if swallowed.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
57-55-6	Propylene glycol	65.0 -71.0 %	200-338-0 NA	No phrases apply. Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336
56-81-5	Glycerin	12.0 -18.0 %	200-289-5 NA	No phrases apply. No data available.
64-17-5	Ethyl alcohol	2.0 -8.0 %	200-578-6 603-002-00-5	F; R11 Flam. Liq. 2: H225
4940-11-8	2 - Ethyl - 3 - hydroxy - 4 - pyrone	2.0 -3.0 %	225-582-5 NA	Xn; R22 No data available.
1124-11-4	2,3,5,6 - Tetramethylpyrazine	1.0 -2.0 %	214-391-2 NA	Xn; R22 No data available.
22047-25-2	Pyrazin - 1 - ylethan - 1 - one	1.0 -2.0 %	244-753-5 NA	Xn; R22-43 No data available.
765-70-8	1,2-Cyclopentanedione, 3-methyl-	1.0 -2.0 %	212-154-8 NA	No phrases apply. No data available.
121-33-5	Vanillin	1.0 -2.0 %	204-465-2 NA	No phrases apply. No data available.
14667-55-1	Pyrazine, Trimethyl-	1.0 -2.0 %	238-712-0 NA	Xn; R22-10 No data available.
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	1.0 -2.0 %	222-908-8 NA	No phrases apply. No data available.
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-	1.0 -3.0 %	244-606-5 NA	No phrases apply. No data available.

Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:**
In Case of Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen.
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: Rinse mouth with water.
- 4.2 Important Symptoms and Effects, Both Acute and Delayed:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
- 5.2 Flammable Properties and Hazards:** No data available.
Flash Pt: 51.11 C Method Used: Closed Cup
Explosive Limits: LEL: No data. UEL: No data.
Autoignition Pt: No data.
- 5.3 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.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** Ensure adequate ventilation.
- 6.2 Environmental Precautions:** No data available.
- 6.3 Methods and Material For Containment and Cleaning Up:** Dike to collect large liquid spills.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Wash thoroughly after handling.
- 7.2 Precautions To Be Taken in Storing:** Store in a tightly closed container.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Britain EH40	France VL	Germany MAK/TRK
57-55-6	Propylene glycol	TWA: 474 mg/m ³ (150 ppm) (Total Particulates)	No data.	No data.

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CAS #	Chemical Name	OSHA TWA	ACGIH TWA	Europe
56-81-5	Glycerin	TWA: 10 mg/m3 (Powder) TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.
64-17-5	Ethyl alcohol	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	No data.
4940-11-8	2 - Ethyl - 3 - hydroxy - 4 - pyrone	No data.	No data.	No data.
1124-11-4	2,3,5,6 - Tetramethylpyrazine	No data.	No data.	No data.
22047-25-2	Pyrazin - 1 - ylethan - 1 - one	No data.	No data.	No data.
765-70-8	1,2-Cyclopentanedione, 3-methyl-	No data.	No data.	No data.
121-33-5	Vanillin	No data.	No data.	No data.
14667-55-1	Pyrazine, Trimethyl-	No data.	No data.	No data.
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	No data.	No data.	No data.
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-	No data.	No data.	No data.
CAS #	Chemical Name	OSHA TWA	ACGIH TWA	Europe
57-55-6	Propylene glycol	No data.	No data.	No data.
56-81-5	Glycerin	PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm	No data.
4940-11-8	2 - Ethyl - 3 - hydroxy - 4 - pyrone	No data.	No data.	No data.
1124-11-4	2,3,5,6 - Tetramethylpyrazine	No data.	No data.	No data.
22047-25-2	Pyrazin - 1 - ylethan - 1 - one	No data.	No data.	No data.
765-70-8	1,2-Cyclopentanedione, 3-methyl-	No data.	No data.	No data.
121-33-5	Vanillin	No data.	No data.	No data.
14667-55-1	Pyrazine, Trimethyl-	No data.	No data.	No data.
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	No data.	No data.	No data.
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-	No data.	No data.	No data.

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.2.2 Personal protection equipment:

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: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

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.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.

No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: Gas Liquid Solid
Appearance and Odor: Transparent Amber Liquid.
Tobacco taste and aroma.
pH: No data.
Melting Point: No data.
Boiling Point: No data.
Flash Pt: 51.11 C Method Used: Closed Cup
Evaporation Rate: No data.
Flammability (solid, gas): No data available.
Explosive Limits: LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Specific Gravity (Water = 1): 1.0615 at 22.0 C
Solubility in Water: No data.
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: No data.
Decomposition Temperature: No data.
Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.
10.2 Stability: Unstable Stable
10.3 Conditions To Avoid - Hazardous Reactions: No data available.
Possibility of Hazardous Reactions: Will occur Will not occur
10.4 Conditions To Avoid - Instability: No data available.
10.5 Incompatibility - Materials To Avoid: No data available.
10.6 Hazardous Decomposition or Byproducts: Carbon monoxide, Carbon dioxide, Carbon oxides, irritating and toxic fumes and gases, formed under fire conditions. Nitrogen oxides.

Section 11. Toxicological Information

- 11.1 Information on Toxicological Effects:** 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 considered and handled as if it displayed health hazards and consequently treated with all possible precaution.
- Irritation or Corrosion:** No data available.
- Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

Section 12. Ecological Information

- 12.1 Toxicity:** 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.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** No data available.

Section 13. Disposal Considerations

- 13.1 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.

Section 14. Transport Information

- GHS Classification:** Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation
Flammable Liquids, Category 4 - Warning! Combustible liquid
Serious Eye Damage/Eye Irritation, Category 2 - Warning! Causes serious eye irritation
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction
Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled
- 14.1 LAND TRANSPORT (European ADR/RID):**
- ADR/RID Shipping Name:** Not Regulated.
- UN Number:**
- Hazard Class:**

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

Section 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
56-81-5	Glycerin	No	No	No
64-17-5	Ethyl alcohol	No	No	No
4940-11-8	2 - Ethyl - 3 - hydroxy - 4 - pyrone	No	No	No
1124-11-4	2,3,5,6 - Tetramethylpyrazine	No	No	No
22047-25-2	Pyrazin - 1 - ylethan - 1 - one	No	No	No
765-70-8	1,2-Cyclopentanedione, 3-methyl-	No	No	No
121-33-5	Vanillin	No	No	No
14667-55-1	Pyrazine, Trimethyl-	No	No	No
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	No	No	No
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-	No	No	No

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

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
57-55-6	Propylene glycol	CA PROP.65: No
56-81-5	Glycerin	CA PROP.65: No
64-17-5	Ethyl alcohol	CA PROP.65: No
4940-11-8	2 - Ethyl - 3 - hydroxy - 4 - pyrone	CA PROP.65: No
1124-11-4	2,3,5,6 - Tetramethylpyrazine	CA PROP.65: No
22047-25-2	Pyrazin - 1 - ylethan - 1 - one	CA PROP.65: No
765-70-8	1,2-Cyclopentanedione, 3-methyl-	CA PROP.65: No
121-33-5	Vanillin	CA PROP.65: No
14667-55-1	Pyrazine, Trimethyl-	CA PROP.65: No
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	CA PROP.65: No
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-	CA PROP.65: No

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
57-55-6	Propylene glycol	REACH: Yes - (R), (P)
56-81-5	Glycerin	REACH: Yes - (R), (P)
64-17-5	Ethyl alcohol	REACH: Yes - (R), (P)
4940-11-8	2 - Ethyl - 3 - hydroxy - 4 - pyrone	REACH: Yes - (P)
1124-11-4	2,3,5,6 - Tetramethylpyrazine	REACH: Yes - (P)
22047-25-2	Pyrazin - 1 - ylethan - 1 - one	REACH: Yes - (P)
765-70-8	1,2-Cyclopentanedione, 3-methyl-	REACH: Yes - (P)

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121-33-5	Vanillin	REACH: Yes - (R), (P)
14667-55-1	Pyrazine, Trimethyl-	REACH: Yes - (P)
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	REACH: Yes - (P)
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-	REACH: Yes - (P)

European Community Hazard Symbol codes:

European Community Risk and Safety Phrases:

No data available.

Section 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 .