SAFETY DATA SHEET
Pie Crust Flavor

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

Product Code: 344713
Product Name: Pie Crust Flavor
Trade Name: Pie Crust 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

Intended Use: Food Industry

2. Hazards Identification

Skin Corrosion/Irritation, Category 3
Serious Eye Damage/Eye Irritation, Category 2A

GHS Signal Word: **Warning**

GHS Hazard Phrases:
H316: Causes mild skin irritation.
H319: Causes serious eye irritation.

GHS Precaution Phrases:
P264: Wash {hands} thoroughly after handling.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+313: If skin irritation occurs, get medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases: No phrases apply.

Potential Health Effects (Acute and Chronic): No data available.

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

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
57-55-6	Propylene glycol	84.0 -90.0 %
765-70-8	1,2-Cyclopentanedione, 3-methyl-	< 6.0 %
121-33-5	Vanillin	< 3.0 %
118-71-8	3-Hydroxy-2-methyl-4-pyrone	< 2.0 %
98-01-1	2-Furancarboxaldehyde	< 2.0 %
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	< 2.0 %
98-00-0	Furfuryl alcohol	< 1.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: If inhaled, remove to 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.

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

5. Fire Fighting Measures

Flash Pt: > 93.30 C Method Used: Closed Cup

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.

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.
765-70-8	1,2-Cyclopentanedione, 3-methyl-	No data.	No data.	No data.
121-33-5	Vanillin	No data.	No data.	No data.
118-71-8	3-Hydroxy-2-methyl-4-pyrone	No data.	No data.	No data.
98-01-1	2-Furancarboxaldehyde	PEL: 5 ppm	TLV: 2 ppm	No data.
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	No data.	No data.	No data.
98-00-0	Furfuryl alcohol	PEL: 50 ppm	TLV: 10 ppm STEL: 15 ppm	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:	No data available.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
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 light brown liquid. Pie Crust taste and aroma.
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	> 93.30 C Method Used: Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.0519 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.

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.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

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: Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation
Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious 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
765-70-8	1,2-Cyclopentanedione, 3-methyl-	No	No	No
121-33-5	Vanillin	No	No	No
118-71-8	3-Hydroxy-2-methyl-4-pyrone	No	No	No
98-01-1	2-Furancarboxaldehyde	No	Yes 5000 LB	No
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	No	No	No
98-00-0	Furfuryl alcohol	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
[ ] Yes [X] No Chronic (delayed) Health Hazard
[ ] Yes [X] 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	
765-70-8	1,2-Cyclopentanedione, 3-methyl-	
121-33-5	Vanillin	
118-71-8	3-Hydroxy-2-methyl-4-pyrone	
98-01-1	2-Furancarboxaldehyde	
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	
98-00-0	Furfuryl alcohol	

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
57-55-6	Propylene glycol	REACH: (R), (P)
765-70-8	1,2-Cyclopentanedione, 3-methyl-	REACH: (P)
121-33-5	Vanillin	REACH: (R), (P)
118-71-8	3-Hydroxy-2-methyl-4-pyrone	REACH: (P)
98-01-1	2-Furancarboxaldehyde	REACH: (R), (P)
3658-77-3	4 - Hydroxy - 2,5 - dimethylfuran - 2(3H) - one	REACH: (P)
98-00-0	Furfuryl alcohol	REACH: (R), (P)

16. Other Information

Revision Date: 03/31/2014

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 .