SAFETY DATA SHEET
Maple Flavor

Printed: 03/28/2014
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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: 00166
Product Name: Maple Flavor
Trade Name: Maple 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

1.4 Emergency telephone number:

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Flammable Liquids, Category 2

2.1.2 Classification according to Directive 1999/45/EC:

F: Highly Flammable
Risk Phrases: R11
For full text of R- phrases: see SECTION 15.

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

GHS Signal Word: **Danger**

GHS Hazard Phrases:

H225 - Highly flammable liquid and vapor.

GHS Precaution Phrases:

P233 - Keep container tightly closed.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P243 - Take precautionary measures against static discharge.
P242 - Use only non-sparking tools.

GHS Response Phrases:

P370+378 - In case of fire, use ... to extinguish.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

GHS Storage and Disposal Phrases:

P403+235 - Store in cool/well-ventilated place.
P501 - Dispose of contents/container to ....

2.2.2 Labeling according to Directive 1999/45/EC:

F

2.3 Adverse Human Health Effects and Symptoms: Chronic: May cause reproductive and fetal effects. Laboratory experiments have shown mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

2.3.1 Inhalation: May be harmful if inhaled. Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

2.3.2 Skin Contact: Causes moderate skin irritation. May cause cyanosis of the extremities.

2.3.3 Eye Contact: Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.

2.3.4 Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
765-70-8	1,2-Cyclopentanedione, 3-methyl-	>=10.0 %	212-154-8 NA	No phrases apply.
64-17-5	Ethyl alcohol	>=10.0 %	200-578-6 603-002-00-5	F; R11 Flam. Liq. 2: H225

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

In Case of Inhalation: If breathed in, move person into fresh air. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

In Case of Skin Contact: Wash off with soap and plenty of water. Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water.

In Case of Eye Contact: Flush eyes with water as a precaution. Get medical aid. Gently lift eyelids and flush continuously with water.

In Case of Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

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.

Note for the Doctor: Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous sytem diseases may be at increased risk from exposure to this substance.
Antidote: Replace fluid and electrolytes.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

5.2 Flammable Properties and Hazards:

Flash Pt:

Explosive Limits: LEL: UEL:

Autoignition Pt:

5.3 Fire Fighting Instructions: Wear self contained breathing apparatus for fire fighting if necessary. Replace fluid and electrolytes. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental Release Measures

6.3 Methods and Material For Containment and Cleaning Up: Personal precautions.
Avoid dust formation. Avoid breathing vapors, mist or gas.
Environmental precautions.
Do not let product enter drains.

Sweep up and shovel. Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
765-70-8	1,2-Cyclopentanedione, 3-methyl-			

64-17-5	Ethyl alcohol	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
765-70-8	1,2-Cyclopentanedione, 3-methyl-			
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm	

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
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. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wear appropriate protective clothing to prevent skin exposure.

Respiratory Equipment (Specify Type): is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.

Work/Hygienic/Maintenance Practices: General industrial hygiene practice.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	Transparent light brown liquid. Maple taste and aroma.
Melting Point:	
Boiling Point:	
Flash Pt:	
Evaporation Rate:	
Explosive Limits:	LEL: UEL:
Vapor Pressure (vs. Air or mm Hg):	
Vapor Density (vs. Air = 1):	
Specific Gravity (Water = 1):	
Solubility in Water:	
Autoignition Pt:	

9.2 Other Information

Percent Volatile:

Section 10. Stability and Reactivity

10.1	**Reactivity:**	
10.2	**Stability:**	Unstable [ ] Stable [X]
10.3	**Conditions To Avoid - Hazardous Reactions:**	
	Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
10.4	**Conditions To Avoid - Instability:**	No data available. Incompatible materials, ignition sources, Excess heat.
10.5	**Incompatibility - Materials To Avoid:**	Strong oxidizing agents, acids, Alkali metals, Ammonia, hydrazine, Peroxides, Sodium, Acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, Perchloric acid, silver nitrate, mercuric nitrate, potassium tert-butoxide, magnesium perchlorate, Acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate.
10.6	**Hazardous Decomposition Or Byproducts:**	formed under fire conditions. Carbon oxides, Carbon monoxide, irritating and toxic fumes and gases.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: Acute toxicity. No data available.
Respiratory or skin sensitization: Germ cell mutagenicity. Reproductive toxicity - no data available.
Specific target organ toxicity -single exposure (Globally Harmonized System) Specific target organ toxicity -repeated exposure (Globally Harmonized System)
Aspiration hazard.

Irritation or Corrosion: No data available.

Carcinogenicity/Other Information: Carcinogenicity.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

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

Section 12. Ecological Information

12.1 Toxicity: Environmental: When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout should be significant.
Physical: No information available.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Product.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging.
Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: METHANOL.
DOT Hazard Class:
UN/NA Number:

14.1 LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: METHANOL.

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:
UN Number:
Hazard Class:

Section 15. Regulatory Information

European Community Hazard Symbol codes:

European Community Risk and Safety Phrases:

R11	Highly flammable.
S16	Keep away from sources of ignition.
S7	Keep container tightly closed.

Section 16. Other Information

Revision Date: 03/28/2014

Additional Information About This Product: