

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:** 00055
Product Name: Coffee Flavor Extra (Clear)
Trade Name: Coffee Flavor Extra (Clear)
- 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]:**
- 2.1.2 Classification according to Directive 1999/45/EC:**
Xn: Harmful
T: Toxic
Risk Phrases: R22, R36/37/38, R10, R21, R23/25
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:**
GHS Hazard Phrases:
GHS Precaution Phrases:
GHS Response Phrases:
GHS Storage and Disposal Phrases:
- 2.2.2 Labeling according to Directive 1999/45/EC:**



Xn



T

- 2.3 Adverse Human Health Chronic:**
Effects and Symptoms:
- 2.3.1 Inhalation:** May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Causes respiratory tract irritation. Toxic if inhaled.
- 2.3.2 Skin Contact:** Causes skin irritation.
- Skin Absorption: May be harmful if absorbed through the skin. Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause skin irritation. Harmful if absorbed through the skin.
- 2.3.3 Eye Contact:** Causes eye irritation.
- 2.3.4 Ingestion:** Harmful if swallowed.
- Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract. May cause irritation of the digestive tract. Toxic 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
121-32-4	Benzaldehyde, 3-ethoxy-4-hydroxy-	>=10.0 %	204-464-7 NA	Xn; R22
137-00-8	2-(4-Methylthiazol-5-yl)ethanol	>=10.0 %	205-272-6 NA	Xi; R36/37/38
541-58-2	2,4-Dimethylthiazole	1.0 -10.0 %	208-786-9 NA	Xi;Xn; R10;36/37/38-22-10-36/37/38
765-70-8	1,2-Cyclopentanedione, 3-methyl-	1.0 -10.0 %	212-154-8 NA	No phrases apply.

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. If breathed in, move person into fresh air. Remove from exposure and move to fresh air immediately. Get medical aid.

In Case of Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water. Wash off with soap and plenty of water. Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In Case of Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Flush eyes with water as a precaution. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

In Case of Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical aid. Wash mouth out 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. Exposure can cause: Nausea, dizziness, and headache. Nausea, headache, and vomiting. Exposure can cause:

Note for the Doctor: Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Suitable: Water spray. For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Use water spray, dry chemical, carbon dioxide, or chemical foam.

5.2 Flammable Properties and Hazards:

Flash Pt:

Explosive Limits: LEL: UEL:

Autoignition Pt:

5.3 Fire Fighting Instructions: Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Combustible liquid. Emits toxic fumes under fire conditions.

EXPOSURE HAZARD(S)

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. Dusts at sufficient concentrations can form explosive mixtures with air. Will burn if involved in a fire. Flammable liquid and vapor.

Section 6. Accidental Release Measures

6.3 Methods and Material For Containment and Cleaning Up: PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. PROCEDURE(S) OF PERSONAL PRECAUTION(S)
 Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Methods for cleaning up.
 Absorb on sand or vermiculite and place in closed containers for disposal. Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Ventilate area and wash spill site after material pickup is complete. Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. 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: Avoid generating dusty conditions. Do not let this chemical enter the environment. 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.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Use spark-proof tools and explosion proof equipment. Avoid breathing dust, mist, or vapor. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

7.2 Precautions To Be Taken in Storing: Suitable: Keep tightly closed. SPECIAL REQUIREMENTS: Keep away from heat and open flame. Store in a cool, dry place. Store under nitrogen. Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of ignition. Do not store in direct sunlight. Store in a tightly closed container. Store in a dry area. Keep refrigerated. (Store below 4°C/39°F.)

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
121-32-4	Benzaldehyde, 3-ethoxy-4-hydroxy-			
137-00-8	2-(4-Methylthiazol-5-yl)ethanol			
541-58-2	2,4-Dimethylthiazole			
765-70-8	1,2-Cyclopentanedione, 3-methyl-			

SAFETY DATA SHEET

Coffee Flavor Extra (Clear)

Page: 4
Printed: 03/24/2014
Revision: 03/24/2014

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
121-32-4	Benzaldehyde, 3-ethoxy-4-hydroxy-			
137-00-8	2-(4-Methylthiazol-5-yl)ethanol			
541-58-2	2,4-Dimethylthiazole			
765-70-8	1,2-Cyclopentanedione, 3-methyl-			
8.2 Exposure Controls:				
8.2.1 Engineering Controls (Ventilation etc.):		Safety shower and eye bath. Mechanical exhaust required. 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. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.		
8.2.2 Personal protection equipment:				
Eye Protection:		Chemical safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Wear chemical splash goggles.		
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):		Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves. is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Work/Hygienic/Maintenance Practices:		Wash thoroughly after handling. Wash contaminated clothing before reuse. General industrial hygiene practice.		

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: Gas Liquid Solid

Appearance and Odor: Clear yellowish liquid.
coffee-like - strong odor.

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

10.3 Conditions To Avoid - Hazardous Reactions:

Possibility of Hazardous Reactions: Will occur Will not occur

10.4 Conditions To Avoid - Instability: No data available.
Incompatible materials, Light, ignition sources.

10.5 Incompatibility - Materials To Avoid: Strong oxidizing agents, Strong oxidizing agents. Reducing agents, acids, Amines.

10.6 Hazardous Decomposition Or Byproducts: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides, formed under fire conditions. Carbon oxides.

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. Epidemiology: Teratogenicity: No data available. Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:
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# 118-71-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 498-60-2: 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: No information available. Physical: No information available. Other: Do not empty into drains.
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:	<p>APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Product. Offer surplus and non-recyclable solutions to a licensed disposal company.</p> <p>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.</p>
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Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated. FURALDEHYDES.

DOT Hazard Class:

UN/NA Number:

14.1 LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated. FURALDEHYDES.

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:

UN Number:

Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Non-Hazardous for Air Transport: Non-hazardous for air transport. UN Number: 3334

Section 15. Regulatory Information

European Community Hazard Symbol codes:

European Community Risk and Safety Phrases:

R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R10	Flammable.
R21	Harmful in contact with skin.
R23/25	Toxic by inhalation and if swallowed.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S16	Keep away from sources of ignition.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

Section 16. Other Information

Revision Date: 03/24/2014

Additional Information About This Product: