

# SAFETY DATA SHEET

Date-Revised 12/12/2014  
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MSDS Ref. No: A0903



## Amoretti® 45

### SECTION 1: IDENTIFICATION

#### Product Identifier:

Trade Name/Designation: Amoretti® 45  
Alternate Means of Identification: Blueberry Extract

Relevant identified uses of the substance or mixture: Culinary Ingredient

#### Details of the supplier of the Safety Data Sheet:

Amoretti®  
NOUSHIG Inc.  
451 Lombard Street  
Oxnard, CA 93030  
**Phone: 1-800-AMORETTI**  
**Phone: 1-805-983-2903**  
EMAIL: [info@amoretti.com](mailto:info@amoretti.com)  
WEBSITE: [www.amoretti.com](http://www.amoretti.com)

#### Emergency Telephone Number:

24 hours per day/7 days per week (English only):  
CHEMTREC: (800) 424 - 9300  
Outside the U.S. Call Collect: 001 (703) 527-3887

### Section 2. Hazards Identification

**GHS Classification:** Flammable Liquid Category 4

**GHS Signal Word:** Warning

#### Label elements

GHS Hazard Symbols: None :

GHS Hazard Phrase: H227 - Combustible Liquid

GHS P-Phrases (Safety): P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking

GHS P-Phrases (First Aid): P370+P378 - In case of fire: Use carbon dioxide, dry chemical or water fog for extinction.

### SECTION 3: Composition/information on ingredients

Hazardous Ingredients	GHS Classification	Wt.%	CAS#
Ethyl Alcohol	Flam Liq 2; Eye Irrit 2B; Skin Irrit 2	Proprietary	64-17-5
Ethyl Butyrate	Flam Liq 3; Eye Irrit 2A; Skin Irrit 2; STOT SE 3	Proprietary	105-54-4
Benzaldehyde	Flam Liq 3; Eye Irrit 2B; STOT SE 3	Proprietary	100-52-7

**Comments:** One or more hazardous ingredient concentration range(s) are claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

See Section 8 for Exposure Limits

## SECTION 4: First aid measures

### Description of first aid measures

Following eye contact: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

Following skin contact: Wash with soap and water. If skin irritation occurs: Get medical advice/attention.

Following ingestion: Normally not needed. Do not induce vomiting. If large quantities are ingested or if you feel unwell, call your local Poison Control Center (1-800-222-1222 in the U.S) or a physician.

Following Inhalation: Remove to fresh air. Seek medical attention if cough or other symptoms develop or persist.

### Potential effects of overexposure:

Contact may cause eye irritation. Prolonged or repeated contact may cause drying or cracking of the skin. Sensitive individuals may develop an allergic skin reaction.

## SECTION 5: Firefighting measures

**Extinguishing media:** In case of fire: Use carbon dioxide, dry chemical or water fog for extinction

**Special hazards arising from the substance or mixture:** Combustible liquid and vapor. Store away from heat, sparks, or other sources of ignition. No smoking. Keep container tightly closed when not in use.

**Advice for fire fighters:** As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode, (NIOSH approved or equivalent) and full protective gear.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear gloves and long sleeves to prevent skin contact. Wash thoroughly after handling.

### Environmental precautions

As with all chemicals, use good chemical hygiene and environmental stewardship practices.

### Methods and material for containment and cleaning up

Dike spill and prevent from entering drains or sewer systems. Combustible. Clean up spills immediately. Protect from heat, spark, and other sources of ignition. Absorb spill with inert material and place in appropriate container for disposal. Residue left on floors presents a serious slip hazard. Do not walk through spilled material. Clean spill area with hot, soapy water. Dry thoroughly.

**Reference to other sections** Refer to Section 8, Exposure Control/Personal Protection.

## SECTION 7: Handling and storage

### Precautions for safe handling

Use with adequate ventilation. Follow good manufacturing practices (GMP) for housekeeping and personal hygiene. Avoid inhalation of concentrated vapors especially at elevated temperatures. Avoid skin contact. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

Follow storage requirements for Flammable Liquids, Category 4, as described in 29 CFR 1910.106. Store in original shipping container and keep tightly sealed. Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from heat, spark, static discharge or other sources of ignition.

## SECTION 8: Exposure controls/personal protection

**Control Parameters:****HAZARDOUS COMPONENTS**

		<b>EXPOSURE LIMITS</b>			
		<b>OSHA PEL</b>		<b>ACGIH TLV</b>	
<b>Chemical Name</b>		<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>
Ethyl Alcohol	<b>TWA</b>	1000	1900	1000	1800
Ethyl Butyrate	<b>TWA</b>	Not established		Not established	
Benzaldehyde	<b>TWA</b>	Not Established		Not Established	

**Exposure Controls:**

Appropriate engineering controls: Good general ventilation should be sufficient to control airborne levels. A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OELs)

**Individual protection measures:**

Eye/Face protection: Follow facility guidelines

Skin protection: Use of good chemical hygiene practices in the workplace is required. Wear gloves and long sleeves to prevent prolonged or repeated skin contact.

Respiratory protection: This mixture has not been tested as a whole. The hazards stated and related recommendations for Personal Protective Equipment are based on currently available information on the individual ingredients in the mixture.

Employers are urged to review information provided by the National Institute of Occupational Safety and Health (NIOSH) and the Flavor and Extract Manufacturers Association (FEMA) regarding respiratory protection programs for workers exposed to food flavorings. If occupational exposures are above permissible limits, a NIOSH approved respirator designated to control organic vapors is recommended. A respiratory protection program that meets OSHA 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use. Additionally, the recommendations found in the following documents are applicable to all chemicals used in the workplace:

"Preventing Lung Disease in Workers Who Use or Make Flavorings" NIOSH Publication No. 2004-110

"Respiratory Health and Safety in the Flavor Manufacturing Workplace" FEMA, 2003

**SECTION 9: Physical and chemical properties**

Physical state: Liquid

Color: yellowish

Odor: fruity

Odor threshold: not determined

Flashpoint: ~180°F

pH: not determined

Percent volatile: <10

Vapor pressure: not determined

Vapor density (air = 1) : >1

Relative Density (water = 1) : <1

Boiling point: not determined

Solubility (water): soluble

Melting point: not determined

Evaporation rate (water = 1) : <1

Viscosity: not determined  
Lower explosion limit: not determined  
Upper explosion limit: not determined  
Autoignition temperature: Not determined  
Partition coefficient n-octanol/water: Not determined  
Flammability: not applicable  
Oxidizing properties: None

## SECTION 10: Stability and reactivity

**Reactivity:** Hazardous polymerization will not occur.  
**Chemical stability:** This material is stable when properly handled and stored.  
**Possibility of hazardous reactions:** None known.  
**Conditions to avoid:** Store away from heat, flame, other sources of ignition.  
**Hazardous decomposition products:** CO, CO<sub>2</sub>, and hydrocarbons  
**Incompatible materials:** Strong acids, bases, and oxidizers.

## SECTION 11: Toxicological information

Route(s) of exposure: eye contact, skin contact, ingestion, inhalation  
Signs and symptoms of overexposure: Contact may cause eye irritation. Prolonged or repeated contact may cause drying or cracking of the skin. Sensitive individuals may develop an allergic skin reaction.

### Description of immediate effects:

Chemical Name	Inhalation LC <sub>50</sub>	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>
Ethyl Alcohol	20,000 ppm/10H	7060 mg/kg (rat)	
Ethyl Butyrate		13000 mg/kg (rat)	5228 mg/kg (rabbit)
Benzaldehyde		2400 mg/kg (rat)	

Eye Irritation / corrosion: Draize test, rabbit, eye, 30 mg (Ethyl Alcohol)/24H Moderate  
Skin Irritation / corrosion: Draize test, rabbit, skin, 500 mg (Ethyl Butyrate)/24H Moderate  
Sensitization: Benzaldehyde may cause allergic skin reaction. Reactions are considered to be rare.  
Reproductive effects: Prolonged and repeated ingestion of large quantities may cause harm to the developing fetus.

### Description of delayed effects:

#### Carcinogenicity:

Chemical Name	NTP STATUS	IARC STATUS	OSHA STATUS
Ethyl Alcohol	Not Listed	Not Listed	Not Listed
Ethyl Butyrate	Not Listed	Not Listed	Not Listed
Benzaldehyde	Not Listed	Not Listed	Not listed

Comments: This product has not been tested on animals. The toxicological information has been taken from available literature on the components.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of this product in accordance with all applicable local, state, and federal regulations. It is the generator's responsibility to properly classify wastes.

#### 14. TRANSPORTATION INFORMATION

##### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not regulated by ground or rail in non-bulk containers.

#### 15. REGULATORY INFORMATION

United States:

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard categories:

FIRE: YES PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: NO CHRONIC: NO

#### 16. OTHER INFORMATION

**REVISION SUMMARY:** Revision of document dated 06/30/2009

**MANUFACTURER DISCLAIMER:** The information presented herein is believed to be accurate and is given in good faith but is not warranted. No warranty, express or implied, is made. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of this product and the safety and health of employees.

This product is a mixture of several components. Hazard determination is based on information currently available on the components of the mixture. Since hazardous and toxicological effects of the mixture are not fully known, the material may present unknown hazards and appropriate precautions for exposures in the workplace should be taken.

End of MSDS