

SAFETY DATA SHEET

Date-Issued: 10/13/2015
SDS Ref. No: A1461



Amoretti® 561

1: Identification

Product Identifier Used on the Label: Amoretti® 561
Recommended Use: Culinary Ingredient
Other Means of Identification: Hibiscus Extract W.S.

Manufacturer/Supplier

Amoretti®
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24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC : (800) 424 - 9300
Outside the U.S. Call Collect : 001 (703) 527-3887

2. Hazard Identification

GHS Classification: Skin Sensitization Category 1
Flammable Liquid Category 4

Label elements

GHS Signal Word: Warning

GHS Hazard
Symbol:



GHS Hazard Phrases: H317 - May cause an allergic skin reaction.
H227 - Combustible liquid

GHS P-Phrases (Safety): P272 - Contaminated work clothing should not be allowed out of the workplace.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
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): P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid.

GHS P-Phrases (Storage): P403+P235 - Store in a well-ventilated place. Keep cool.
P233 - Keep container tightly closed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients			
Ethyl Alcohol	Flam Liq 2; Skin Irrit 2; Eye Irrit 2B	6 - 7%	64-17-5
Benzaldehyde	Flam Liq 3; Skin Sens 1	0.1 - 0.5%	100-52-7

See Section 8 for Exposure Limits

4. FIRST AID MEASURES

Description of first aid measures:

Following eye contact: Immediately flush eyes with plenty of water. Remove contact lenses if present and easy to do so. Get medical attention, if irritation persists.

Following skin contact: Remove contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Following ingestion: May cause transient irritation to the mouth, throat, and stomach when ingested in its concentrated form

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

Most important symptoms and effects, both acute and delayed:

Contact may cause eye irritation. Causes skin irritation. May cause allergic skin rash. Ingestion causes irritation of the digestive tract, burning and discomfort. Fumes may cause coughing, irritation and wheezing

5. FIRE FIGHTING MEASURES

Extinguishing media: In case of fire: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid.

Special hazards arising from the substance or mixture: Combustible liquid

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

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb spill with inert material (e.g. dry sand, clay) then place in appropriate container for disposal. Residue left on floors presents a slip hazard. Do not walk through spilled material. Clean spill area with hot, soapy water. Dry thoroughly.

LARGE SPILL: 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 slip hazard. Do not walk through spilled material. Clean spill area with hot, soapy water. Dry thoroughly.

SPECIAL PROTECTIVE EQUIPMENT: Refer to Section 8, Exposure Control/Personal Protection.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation. Avoid contact with eyes. Avoid contact with skin. Avoid inhalation of concentrated vapors. Wear gloves and long sleeves. Wash thoroughly after handling.

HANDLING: Follow good manufacturing practice (GMP) for housekeeping and personal hygiene. Avoid inhalation of concentrated vapors.

STORAGE: 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Chemical Name		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m ³	ppm	mg/m ³
Ethyl Alcohol	TWA	1000	1900	1000	1880
Benzaldehyde	TWA	Not established		Not established	

Exposure Controls:

Appropriate engineering controls: Use good general ventilation or local exhaust ventilation to minimize employee exposure and maintain operator comfort.

Individual control measures:

Eyes/Face protection: If handling large quantities in an industrial setting and splashing is possible, wear appropriate eye protection.

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. Wash hands thoroughly after handling. Contaminated clothing should be laundered before reuse.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: clear

Odor: characteristic

Odor threshold: not determined

Flashpoint: >145°F

pH: not determined

Percent volatile: ~6 - 8%

Vapor pressure: not determined

Vapor density (air = 1) : not determined

Relative Density (water = 1) : not determined

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 (solid/gas): not applicable

Oxidizing properties: None

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Heat, flame, other sources of ignition.

MATERIALS TO AVOID: Strong acids, bases, and oxidizers.

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, and hydrocarbons

11. TOXICOLOGICAL INFORMATION

Routes of entry: eye contact, skin contact, vapor inhalation, ingestion.

Symptoms of overexposure: Causes eye irritation. Causes skin irritation. May cause allergic skin rash. Ingestion may cause burning of nose, throat and stomach. Inhalation of concentrated vapors may cause irritation.

Description of immediate effects:

Chemical Name	Inhalation LC ₅₀	Dermal LD ₅₀	ORAL LD ₅₀
Ethyl Alcohol	20,000 ppm/10H		7060 mg/kg
Benzaldehyde		1750 mg/kg	>1250 mg/kg

Skin Corrosion/Irritation: Benzaldehyde applied full strength to intact or abraded rabbit skin for 24 hr under occlusion was moderately irritating. Ethyl alcohol Draize test, rabbit, skin: 20 mg/24H: Moderate

Serious Eye Damage/Irritation: Benzaldehyde is slightly irritating to eyes. Ethyl alcohol Draize test, rabbit, eye: 500 mg: Severe

Respiratory or Skin Sensitization: Positive, but incompletely documented results were obtained in a study with benzaldehyde in the Draize Test, maximization test and FCA test with male and female guinea pigs (Himalayan white-spotted). In the Draize Test the animals were treated once intradermally with 0.05 mL and on nine subsequent days with 0.1 mL of a 0.1% preparation of benzaldehyde (in total 0.95 mg/animal) in isotonic saline. Provocation was carried out on days 35 and 49 by intradermal injection of 0.05 mL of the 0.1 % preparation. The test protocol of the maximization test corresponded more or less with the standard conditions: intradermal induction with 5 % benzaldehyde (in total 20 mg, vehicle not specified), epicutaneous induction by means of 48 -hour occlusive treatment with a moderately irritative preparation of 25 % benzaldehyde (250 mg) in petroleum, provocation on day 21 with a non-irritative concentration in petrolatum (24 h, occlusive, no further details). In the FCA test, induction was carried out by 5 injections in the necks of the animals on days 0, 2, 4, 7 and 9 of 0.05 mL (in total about 250 mg) of the undiluted substance spiked with the same amount of FCA, and provocation on days 21 and 35 with a non-irritative concentration in petrolatum (24 occlusive, no further details). Control animals were treated intradermally with FCA only (Klecak et al., 1977). In summary, the reported test result was negative for the Open Epicutaneous Test (OT) and positive for the Draize Test, Maximization Test and Intradermal Test with Freund's complete adjuvant. Thus, a skin sensitizing potential can be presumed, based on that information.

Description of delayed effects:

Chemical Name	NTP STATUS	IARC STATUS	OSHA STATUS
Proprietary ingredients	Not Listed	Not Listed	Not Listed

Reproductive Toxicity: Repeated ingestion of ethyl alcohol is known to cause harm to unborn child

Germ Cell Mutagenicity: Not reported to be or known to be a mutagen.

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: May be harmful if allowed to directly enter waterways. Follow sound stewardship practices for protection of the environment. Do not flush to sewer. Clean up spills immediately. Dispose of product according to state and federal requirements.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of this product in accordance with all applicable local, state, and federal regulations. US EPA guidelines for classification determination are listed in 40 CFR Part 261.3. Processing, use, contamination or removal process may change waste management options. State and local disposal regulations may differ from federal disposal regulations. It is the generator's responsibility to properly classify their wastes.

14. TRANSPORTATION INFORMATION

DOT (Department of Transportation): Not regulated by DOT when transported domestically in packages less than 119 gallons by ground or rail pursuant to 49 CFR 173.120(b)(2) and 173.150(f).

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: YES CHRONIC: NO

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

16. OTHER INFORMATION

REVISION SUMMARY: New MSDS

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