

SAFETY DATA SHEET

SDS Ref. No:

A1617



Amoretti® 1378

1: Identification

Product Identifier Used on the Label: Amoretti® 1378

Recommended Use: Culinary Ingredient

Uses advised against: Not intended for ingestion in concentrated form.

Other Means of Identification: Lime Zest Oil Extract W.S.

Manufacturer/Supplier

Amoretti®

Noushig Inc.

451 Lombard Street

Oxnard, CA 93030

Phone: 1-800-AMORETTI

Phone: 1-805-983-2903

EMAIL: info@amoretti.com

WEBSITE: www.amoretti.com

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC : (800) 424 - 9300

Outside the U.S. Call Collect : 001 (703) 527-3887

2: Hazards Identification

Classification of the chemical substance in accordance with paragraph (d) of §1910.1200:

This product is considered to be hazardous in accordance with paragraph (d) of §1910.1200 (Hazard Communication).

GHS Classification: Skin Sensitization Category 1
Serious Eye Damage/Eye Irritation Category 2B
Skin Irritation Category 2
Flammable Liquid Category 2

GHS Signal Word: Danger

GHS Hazard Symbol:



GHS Hazard Statements: May cause an allergic skin reaction.
Causes skin irritation and eye irritation
Highly flammable liquid and vapor

Precautionary Statements (Safety): Avoid breathing mist/vapors/spray
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Contaminated work clothing should not be allowed out of the workplace. Take precautionary measures against static discharge.
Use only non-sparking tools.
Use explosion-proof electrical/ventilating/lighting/.../ equipment.

Ground/bond container and receiving equipment.
 Keep container tightly closed.
 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Precautionary Statements (First Aid):
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Wash contaminated clothing before reuse.
 If skin irritation or rash occurs: Get medical advice/attention
 In case of fire: Use carbon dioxide, dry chemical, alcohol-resistant foam or water fog for extinction.

Precautionary Statements (Disposal):
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

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

Other Hazards:
 Ingestion causes gastrointestinal irritation. May cause a burning sensation. Ingestion of large quantities may cause excitement, headache, dizziness, drowsiness, slurred speech, confusion, nausea and unconsciousness. Chronic ingestion may cause liver damage (cirrhosis).
 May be absorbed through skin with prolonged and widespread contact.

Hazards Not Otherwise Classified: None

3: Composition/information on ingredients

Hazardous Ingredients	GHS Classification	Wt. %	CAS#
Ethyl Alcohol	Flammable Liquid Category 2; Skin Corrosion/Irritation Category 2; Serious Eye Damage/Eye Irritation Category 2B	proprietary	64-17-5
Lime Oil	Flammable Liquid Category 3; Skin Sensitization Category 1; Skin Corrosion/Irritation Category 2	proprietary	8008-26-2

The composition and composition ranges are claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of the ingredient(s) are given on this SDS.

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/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Launder clothing before reuse.

Following ingestion: 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:

Causes eye irritation. May cause redness and tearing. Causes skin irritation. May cause an allergic skin rash. Ingestion causes gastrointestinal irritation. May cause a burning sensation. Ingestion of large quantities may cause excitement, headache, dizziness, drowsiness, slurred speech, confusion, nausea and unconsciousness.

Indication of any immediate medical attention and special treatment needed:

No additional first aid information available.

5: Firefighting measures

Extinguishing media: In case of fire: Use carbon dioxide, dry chemical, alcohol-resistant foam or water fog for extinction

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

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

Personal precautions, protective equipment and emergency procedures: Wear gloves and long sleeves. If splashing is possible, wear chemical splash goggles. Flammable. Protect from heat, spark and other sources of ignition. Launder contaminated clothing before reuse.

Environmental precautions: As with any spill, follow sound environmental management practice and chemical hygiene procedures. Do not flush to sewer. Clean up spills immediately.

Methods and material for containment and cleaning up: Flammable. Ventilate spill area. Clean up spills immediately. Protect from heat, spark, and other sources of ignition. Absorb spill with inert material (e.g. dry sand, clay) then place in appropriate container for disposal. Cover tightly.

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

7: Handling and storage

Precautions for safe handling: Use with adequate ventilation. Follow good manufacturing practice (GMP) for housekeeping and personal hygiene. Wear gloves and long sleeves. Avoid contact with eyes. Avoid inhalation of concentrated vapors. Launder contaminated clothing before reuse.

Precautions for safe storage, including any incompatibilities: Follow storage requirements for Flammable Liquids, Category 2, 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 strong oxidizers. Protect from heat, spark, static discharge or other sources of ignition.

8. Exposure controls / personal protection

Control Parameters:

HAZARDOUS COMPONENTS

		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Flavoring Component	TWA	**	**	**	**
Lime Oil	TWA	**	**	**	**

* STEL = Short Term Exposure Limit; **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: 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 contaminated clothing 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 – Update 2015" FEMA

9. Physical and chemical properties

Physical state: Liquid

Odor: alcoholic, citrus

Color: clear to yellow

Odor Threshold: not determined

PH: not determined

Percent volatile: not determined

Vapor pressure: 41 mmHg @ 20°C

Vapor density (air = 1) : >1

Relative density: ~0.80 @ 20°C

Boiling point: ~78°C

Melting point: ~-90°C

Evaporation rate: >1 (water = 1)

Solubility in water: Soluble

Oxidizing properties: None

Flashpoint: <73°F

Flammability (solid/gas): not applicable

Viscosity: not determined

Auto ignition temperature: ~362°C

N-octanol/water partition coefficient: not determined

Explosion limits, lower: ~3%

Explosion limits, upper: ~19%

10. Stability and reactivity

Reactivity: Hazardous polymerization will not occur.

Chemical stability: This product 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, CO₂, and hydrocarbons

Incompatible materials: Strong acids, bases, and oxidizers.

11. Toxicological information

Route(s) of exposure: eye contact, skin contact, ingestion, inhalation

Signs and symptoms of overexposure: Causes eye irritation. May cause redness and tearing. Causes skin irritation. May cause an allergic skin rash. Ingestion causes gastrointestinal irritation. May cause a burning sensation. Ingestion of large quantities may cause excitement, headache, dizziness, drowsiness, slurred speech, confusion, nausea and unconsciousness.

Description of immediate effects:

Chemical Name	Inhalation LC ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	ORAL LD ₅₀ (rat)
Ethyl Alcohol	20,000 ppm/10H		7060 mg/kg
Lime Oil		>5000 mg/kg	>5000 mg/kg

Skin corrosion irritation: Classification criteria are fulfilled. Causes skin irritation. Calculation method.

Serious eye damage/irritation: Classification criteria are fulfilled. Causes eye irritation. Calculation method.

Skin sensitization: Classification criteria are fulfilled. May cause allergic skin reaction. Calculation method.

Reproductive effects: Prolonged and repeated ingestion of large quantities may cause harm to the developing fetus.

STOT - Specific Target Organ Toxicity - Single Exposure: Does not meet classification criteria.

Description of delayed effects:

Carcinogenicity:

Chemical Name	NTP STATUS	IARC STATUS	OSHA STATUS
Ethyl Alcohol	Not Listed	Alcoholic Beverages	Not Listed
Lime Oil	Not Listed	Not Listed	Not Listed

Mutagenicity: Not expected or known to be a mutagen.

STOT - Repeated Exposure: Data lacking for classification.

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:

Aquatic toxicity (acute) (ethyl alcohol):

96-HOUR LC₅₀: 12900-15300 mg/L (Rainbow Trout)

24-HOUR LC₅₀: 11200 mg/L (Rainbow Trout)

13. Disposal considerations

Disposal method: Dispose of this product in accordance with all applicable local, state, and federal regulations. This material may exhibit flammability characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. 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)

Proper shipping name: Extracts, flavoring liquid

Primary Hazard Class/Division: 3

UN / NA NUMBER: UN1197

PACKING GROUP: II

15. REGULATORY INFORMATION

United States

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Skin Sensitization Category 1; Serious Eye Damage/Eye Irritation Category 2B; Skin Irritation Category 2, Flammable Liquid Category 2

16. OTHER INFORMATION

Revision summary: New SDS

Revision Date: 02/07/2018

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 SDS