

SAFETY DATA SHEET



SDS Ref. No:

A2058

Amoretti® ART2-NS

1. IDENTIFICATION

Product identifier used on the label: Amoretti® ART2-NS

Recommended use: Culinary Ingredient

Other means of identification: Artisan Natural Blood Orange Flavor

Restrictions on Use: None

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. HAZARD IDENTIFICATION

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

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

GHS Classification:

Flammable Liquid Category 3
Skin Sensitizer Category 1

GHS Signal Word:

Warning

GHS Hazard Symbol:



GHS Hazard Statements:

H226 - Flammable liquid and vapor
H317 - May cause allergic skin reaction

Precautionary Statements (Safety):

P280 - Wear protective gloves, protective clothing.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P261 - Avoid breathing vapors/spray/fumes
P243 - Take precautionary measures against static discharge.
P242 - Use only non-sparking tools.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P240 - Ground/bond container and receiving equipment.
P233 - Keep container tightly closed.
P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Precautionary Statements (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 occurs, get medical 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.

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.

Hazards Not Otherwise Specified:

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>GHS Classification</u>	<u>Wt.%</u>	<u>CAS#</u>
Ethyl Alcohol	Flam Liq 2	~6	64-17-5
Citric Acid	Eye Irrit 2A	3 - 6	77-92-9
Limonene	Flam Liq 3; Skin Irrit 2; Skin Sens 1; Asp 1; Aquatic Tox 1; Aquatic Tox Chronic 1	1 - 3	5989-27-5
Orange, Sweet, Extract	Asp Tox 1; Skin Irrit 2; Skin Sens 1	<0.25	68514-75-0
Orange Oil	Flam Liq 3; Asp Tox 1; Skin Irrit 2; Skin Sens 1	<0.25	8008-57-9

See Section 8 for Exposure Limits

4. FIRST AID MEASURES

Description of first aid measures

Following contact with eyes: Flush eyes with plenty of water. Get medical attention, if irritation develops or persists.

Following contact with skin: Take off contaminated clothing and wash before reuse. Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention

Following Ingestion: Normally not needed. Do not induce vomiting. If large quantities are ingested, 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:

May cause an allergic skin rash. Contact may cause transient eye irritation. Ingestion of large quantities may cause narcotic effects.

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 alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires.

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.

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 to prevent skin contact. Wash thoroughly after handling. Launder clothing before reuse. Avoid contact with eyes.

Environmental precautions

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

Methods and material for containment and cleaning up

Flammable. Remove sources of ignition. Absorb spill then place in appropriate container for disposal. Clean up spill immediately. Use spark-proof tools and explosion-proof equipment. Wash spill area with hot soapy water. Notify appropriate authorities if liquid enters sewers or other public waters.

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

7. HANDLING AND STORAGE

Precautions for safe handling: Use with adequate ventilation. Avoid contact with eyes. Avoid contact with skin. Keep away from open flame and other sources of ignition. Follow good manufacturing practice (GMP) for housekeeping and personal hygiene. Avoid inhalation of concentrated vapors

Conditions for safe storage, including any incompatibilities: Follow storage requirements for Flammable Liquids Category 3 as described in 29 CFR 1910.106 or similar best practice. 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:

HAZARDOUS COMPONENTS

Chemical Name		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m ³	ppm	mg/m ³
Ethanol	TWA	1000	1900	1000*	1880*
Citric Acid	TWA	NE	NE	NE	NE
Limonene	TWA	NE	NE	NE	NE
Orange, Sweet, Extract	TWA	NE	NE	NE	NE
Orange Oil	TWA	NE	NE	NE	NE

PEL = Permissible Exposure Limit; AL = Action Limit; NE = Not Established; RD = Respirable Dust; STEL = Short Term Exposure Limit; TD = Total Dust; TLV = Threshold Limit Value

*Ceiling or STEL

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. Wash thoroughly after use. Launder protective 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 2012" – FEMA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: per specification

Amoretti® ART2-NS

Odor: characteristic
 Odor Threshold: not determined
 pH: not determined
 Percent volatile: not determined
 Vapor pressure: not determined
 Vapor density: >1 (air = 1)
 Relative density: not determined
 Boiling point: not determined
 Melting point: not determined
 Evaporation rate: not determined
 Solubility in water: Soluble
 Oxidizing properties: None
 Flashpoint: ~125 °F
 Flammability (solid/gas): not applicable
 Viscosity: not determined
 Autoignition temperature: not determined
 N-octanol/water partition coefficient: log Pow: not determined
 Explosion limits, lower: not determined
 Explosion limits, upper: not determined

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.
Incompatible materials: Strong acids, bases, and oxidizers.
Hazardous decomposition products: CO, CO₂, and hydrocarbons

11. TOXICOLOGICAL INFORMATION

Route(s) of exposure: eye contact, skin contact, ingestion, inhalation
 Signs and symptoms of overexposure: May cause an allergic skin rash. May cause transient eye irritation.

Description of immediate effects:

Chemical Name	Inhalation LC ₅₀	Oral LD ₅₀	Dermal LD ₅₀
Ethyl Alcohol	>20,000 ppm/10H (mouse)	>7060 mg/kg (rat)	
Citric Acid		>5400 mg/kg (rat)	>2000 mg/kg (rabbit)
Limonene		4400 mg/kg (rat)	>5 gm/kg (rabbit)
Orange, Sweet, Extract		>5000 mg/kg (rat)	>5000 mg/kg (rabbit)
Orange Oil		>5000 mg/kg (rat)	>5000 mg/kg (rabbit)

Skin Corrosion/Irritation: Does not meet classification criteria.

Serious Eye Damage/Irritation: Does not meet classification criteria.

Respiratory or Skin Sensitization: Based on information available from the supplier, criteria are met. May cause allergic skin reaction.

STOT (Specific Target Organ Toxicity) Single Exposure: Does not meet criteria.

Description of delayed effects:

Chemical Name	NTP Status	IARC Status	OSHA Status
Ethyl Alcohol	Not Listed	Not Listed - for occupational exposures	Not Listed
Citric Acid	Not Listed	Not Listed	Not Listed
Limonene	Not Listed	Not Listed	Not Listed
Orange, Sweet, Extract	Not Listed	Not Listed	Not Listed
Orange Oil	Not Listed	Not Listed	Not Listed

Reproductive Toxicity: Prolonged or excessive ingestion of ethyl alcohol may cause harm to the unborn child.

Mutagenicity: Not known or expected to be mutagenic

STOT (Specific Target Organ Toxicity) Repeated Exposure: Does not meet criteria

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)

Aquatic toxicity (acute) (Citric Acid):

96-hour LC₅₀: 1516 mg/L (L. macrochius)

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)

Proper Shipping Name: Not regulated in by road or rail when shipped domestically in non-bulk packages.

IATA (International Air Transport Authority)

Proper Shipping Name: Extracts, flavoring liquid

Primary Hazard Class: 3

UN Number: UN1197

Packing Group: III

IMO (International Maritime Organization)

Proper Shipping Name: Extracts, flavoring liquid

Primary Hazard Class: 3

UN Number: UN1197

Packing Group: III

15. REGULATORY INFORMATION

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: Flammable Liquid Category 3; Skin Sensitizer Category 1

16. OTHER INFORMATION

Revision summary: New SDS

Issue Date: 11/23/2021

Manufacturer's 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