

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : ALN1

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Genesis Custom Chemical Blending LLC
2708 NE Main Street
Ennis, TX 75119
T (806) 367-8031

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Hazardous to the aquatic environment - Acute Hazard Category 2 H401 Toxic to aquatic life
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage
H372 - Causes damage to organs through prolonged or repeated exposure
H402 - Harmful to aquatic life

Precautionary statements (GHS US) : P280 - Wear protective clothing, eye protection, face protection.
P264 - Wash hands thoroughly after handling.
P260 - Do not breathe dust, fume, gas, mist, spray, vapors.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P102 - Keep out of reach of children.

2.3. Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity (GHS US)

12.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
33.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
29.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Citric Acid	CAS-No.: 77-92-9	10 – 20	Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 3, H402
1,2-Ethanediol	CAS-No.: 107-21-1	1 – 10	Acute Tox. 4 (Inhalation:dust,mist), H332
Polyoxyethylene Nonylphenol	CAS-No.: 127087-87-0	1 – 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Benzyl Alkyl Pyrdine	CAS-No.: 68909-18-2	0.8 – 8	Flam. Liq. 3, H226 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,2-Ethanediol (107-21-1)

USA - ACGIH - Occupational Exposure Limits

Local name	Ethylene glycol
ACGIH OEL TWA [ppm]	25 ppm (Vapor fraction)
ACGIH OEL STEL	10 mg/m ³ (Inhalable fraction, Aerosol only)
ACGIH OEL STEL [ppm]	50 ppm (Vapor fraction)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022

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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.
Color : dark brown
Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
Mixture contains one or more component(s) which have the following odour:
Almost odourless Aromatic odour Characteristic odour Mild odour Pleasant odour Alcohol odour
Commercial/unpurified substance: irritating/pungent odour
Odor threshold : No data available
pH : 3.28
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Not applicable.
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available
Density : 8.95
Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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Unknown acute toxicity (GHS US)	12.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 33.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 29.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Citric Acid (77-92-9)

LD50 oral rat	3000 mg/kg Source: OECD Screening Information Data Set
ATE US (oral)	3000 mg/kg body weight

1,2-Ethandiol (107-21-1)

LD50 oral rat	7712 mg/kg body weight (according to BASF-internal standards, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))
LD50 dermal	> 3500 mg/kg body weight (Mouse, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat	> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))
ATE US (oral)	7712 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h

Polyoxyethylene Nonylphenol (127087-87-0)

pH	6.3 (1 %)
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1,2-Ethandiol (107-21-1)

pH	No data available in the literature
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Polyoxyethylene Nonylphenol (127087-87-0)

pH	6.3 (1 %)
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Citric Acid (77-92-9)

STOT-single exposure	May cause respiratory irritation.
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Benzyl Alkyl Pyrdine (68909-18-2)

Viscosity, kinematic	≈ 48 mm ² /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm ² /s)'
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life.

Citric Acid (77-92-9)

LC50 - Fish [1]	48 mg/l Source: ECOTOX
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1,2-Ethanediol (107-21-1)

LC50 - Fish [1]	> 72860 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 96h - Algae [1]	6500 – 13000 mg/l Source: ECHA
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

Benzyl Alkyl Pyrdine (68909-18-2)

LC50 - Fish [1]	14.1 mg/l Test organisms (species): Cyprinodon variegatus
EC50 - Crustacea [1]	3.1 mg/l Source: ECHA Chem
EC50 72h - Algae [1]	0.47 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.16 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	0.16 mg/l Source: ECHA Chem

12.2. Persistence and degradability

1,2-Ethanediol (107-21-1)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance
ThOD	1.29 g O ₂ /g substance

Polyoxyethylene Nonylphenol (127087-87-0)

Persistence and degradability	Not readily biodegradable in water. Biodegradable in water.
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12.3. Bioaccumulative potential

Citric Acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow) -1.7 Source: ICSC

1,2-Ethandiol (107-21-1)

Partition coefficient n-octanol/water (Log Pow) -1.36 (Experimental value)

Bioaccumulative potential Not bioaccumulative.

Benzyl Alkyl Pyrdine (68909-18-2)

Partition coefficient n-octanol/water (Log Pow) 0.3 – 3.93 Source: ECHA Chem

12.4. Mobility in soil

1,2-Ethandiol (107-21-1)

Mobility in soil 0.2 Source: HSDB

Surface tension 48.4 mN/m (20 °C)

Ecology - soil Highly mobile in soil.

Polyoxyethylene Nonylphenol (127087-87-0)

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 2.631 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

Ecology - soil No (test)data on mobility of the substance available. Low potential for adsorption in soil.

Benzyl Alkyl Pyrdine (68909-18-2)

Mobility in soil 17.7827941 – 251188.64315096 Source: ECHA Chem

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

DOT	IMDG	IATA
14.1. UN number		
Not regulated	Not applicable	Not applicable
14.2. Proper Shipping Name		
Not regulated	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not regulated	Not applicable	Not applicable

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DOT	IMDG	IATA
14.4. Packing group		
Not regulated	Not applicable	Not applicable
14.5. Environmental hazards		
Not regulated	Not applicable	Not applicable
No supplementary information available		

14.6. Special precautions for user

DOT
Not regulated

IMDG
Not applicable

IATA
Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Citric Acid	CAS-No. 77-92-9	10 – 20%
1,2-Ethandiol	CAS-No. 107-21-1	1 – 10%
Benzyl Alkyl Pyrdine	CAS-No. 68909-18-2	0.8 – 8%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Polyoxyethylene Nonylphenol	CAS-No. 127087-87-0	1 – 10%
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Methanol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
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15.2. International regulations

CANADA

Polyoxyethylene Nonylphenol (127087-87-0)

Listed on the Canadian DSL (Domestic Substances List)

Methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

No additional information available

National regulations

Methanol (67-56-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations



WARNING:

This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 1/30/2025

Full text of H-phrases

H319	Causes serious eye irritation
H370	Causes damage to organs
H402	Harmful to aquatic life

Safety Data Sheet (SDS), USA