



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Version: 1.0

Initial Issue Date: 24-Aug-2026

Document No.: 46259

1. Identification

Product Identifier used on label

STONE & MULCH GLUE (CONCENTRATE)

Recommended use of the chemical and restrictions on use

Recommended use(s)*: Water-based emulsion polymer for use in outdoor landscape applications

*The "recommended use" identified for this product is provided solely to comply with US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

PATRIOT

2877 Five Springs Rd

Dalton, GA 30720 USA

Emergency Telephone Number:

CHEMTREC 24-Hour

+1 - 800 - 424 - 9300 (U.S.A.)

+1 - 703 - 527 - 3887 (International)

Other means of identification

Chemical family: Polyacrylic emulsion

2. Hazard(s) Identification

Emergency Overview

Appearance	liquid
Color	white
Odor	slight

OSHA Regulatory Status:

Not classified as a hazardous substance or mixture according to the 2012 Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification(s):

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

PATRIOT



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

GHS Label element

Hazard pictogram(s): No symbol

Signal word No signal word

Hazard statements Not applicable

Precautionary Statements
Prevention:
Not applicable
Response:
Not applicable
Storage:
Not applicable
Disposal:
Not applicable

Hazard(s) not otherwise classified (HNOC)
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

Supplemental Information
Unknown Acute Toxicity
55.00% of this mixture consists of ingredient(s) of unknown toxicity.

3. Composition/Information on Ingredients

Substance/Mixture: Mixture

Hazardous Ingredients

Chemical Name	CAS Number	Concentration %	Classification
Ammonium Hydroxide	1336-21-6	< 0.9	Skin corrosion, 1B; H314 Eye damage, 1; H318 STOT SE, 3; H335 Acute aquatic toxicity, 1; H400

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

For the complete explanation of H-Statements mentioned in this Section, see Section 16.

4. First-Aid Measures

Description of first-aid measures

General advice	Get medical attention if irritation or other symptoms occur. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove the affected individual into fresh air.
Skin contact	Wash skin with plenty of soap and water. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.
Ingestion	Immediately rinse mouth with water and then drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if irritation or other symptoms occur.

Most important symptoms and effects, both acute and delayed

None known

Indication of any immediate medical attention and special treatment needs

Treat symptomatically

5. Fire-Fighting Measures

Suitable extinguishing media	Carbon dioxide (CO ₂), dry chemical powder, alcohol-resistant foam or water spray. Use fire fighting measures that are appropriate to the local circumstances and the surrounding environment.
Unsuitable extinguishing media	Caution: Use of water spray when fighting fire may be inefficient.

PATRIOT



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Special hazards arising from the chemical	No information available
Specific hazards during fire fighting	No hazards to be specifically mentioned
Advice for fire fighters	Fire fighters should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCUBA) and turn-out gear.
Further information	Use standard procedure for chemical fires and consider the hazards of other involved materials.
Additional advice	See Section 9 for product physical and chemical properties (safety data).

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use proper personal protective clothing and equipment. Ensure adequate ventilation.
Environmental precautions	Do not release or allow material to contaminate ground water systems. Prevent product from entering drains and/or sewer systems.
Methods and material for containment and cleaning up	Spills should be contained, and then solidified with a non-combustible absorbent material (e.g. sand, earth, vermiculite) and placed in a suitable labeled container(s) for disposal according to local/national regulations.
Special precautions	Spillage on surface may cause slippery conditions.
Additional advice	See Section 8 for personal protection advice.

PATRIOT



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

7. Handling and Storage

Handling

Advice on safe handling

Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink, or smoke. Wash thoroughly after handling. Open containers in a well-ventilated area and keep containers tightly close when not in use. Spillage on surface may cause slippery conditions. Do not empty into drains.

For personal protection, see Section 8.

Advice protection against fire and explosion

No hazards to be specifically mentioned.

Storage

Requirements for storage areas and containers

Keep container tightly closed and store in a dry and well-ventilated area. Do not freeze.

Advice on common storage

Store in a cool dry area away from exposure to outside elements.

Minimum storage temperature

40 Deg F

Maximum storage temperature

80 Deg F

Additional information

Storage of product outside of recommendation will cause accelerated degradation.

Shelf life under recommended storage is six (6) months.

8. Exposure Controls/Personal Protection

Exposure Guidelines

This product, as supplied, does not contain any materials classified as hazardous. However, certain ingredients do possess occupational limits established by the region specific regulatory bodies.

Occupational Exposure Limits:

Chemical Identity

Type

Exposure Limit Values

Source



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Engineering measures

Effective exhaust ventilation system to maintain exposure below TLVs. Ensure that eyewash stations and safety showers are close to workstations.

Personal protective equipment

Eye/face protection

Tightly-fitting safety goggles or safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand protection

Glove material: For prolonged or repeated contact use protective gloves with glove material complying with EN 374.

Skin and body protection

Protective suit

Respiratory protection

No personal respiratory protective equipment normally required. Ensure adequate ventilation. In case of vapor or aerosol formation, use a respirator with an approved filter.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.
Do not eat or drink when using product.
Do not smoke when using product.
Wash hands before breaks and at the end of the work day.

Environmental exposure controls

General advice

Do not allow material to contaminate ground water system. Prevent product from entering drains.

9. Physical and Chemical Properties



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Appearance

Form:	liquid
Odor:	slight
Color:	white
Odor threshold:	No data available

Safety data

pH @ 20 Deg C (68 Deg F):	7.0 - 9.5
Melting/freezing point:	0.0 Deg C (32 Deg F)
Boiling point	> 93Deg C (> 200 Deg F)
Flash point	> 93Deg C (> 200 Deg F)
Evaporation rate	No data available
Flammability (solid/gas):	No data available
Upper/lower flammability or explosive limits (%),	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure @ 20 Deg C (68 Deg F):	No data available
Specific gravity @ 20 Deg C (68 Deg F):	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility in water:	Dispersable
Solubility in other solvnets:	No data available
Partition coefficient, n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic @ 25 Deg C (77 Deg F):	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Percent volatile:	No data available
Other information:	No further relevant information available.

This safety data sheet only contains information relating to safety and does not replace any product information or product specification.

10. Stability and Reactivity



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Conditions to avoid:	Protect from freezing and excessive heat
Incompatible Materials:	None known based on information supplied
Reactivity:	This product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products:	No data available

11. Toxicological Information

Product information:

Toxicological Assessment

Further information	No further data available
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Information on likely routes of exposure

Inhalation	No data available
Skin contact	No data available
Eye contact	No data available
Ingestion	No data available

Toxicological Data for the product:

Test result

Acute oral toxicity:	No data available
Acute dermal toxicity:	No data available
Acute inhalation toxicity:	No data available
Skin corrosion/irritation:	No data available
Eye corrosion/irritation:	No data available



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Respiratory sensitization:	No data available
Skin sensitization:	No data available
Reproductive sensitization:	No data available
Target Organ Systemic: Toxicant - Single exposure	No data available
Target Organ Systemic: Toxicant - Repeated exposure	No data available
Carcinogenicity:	No data available
Germ cell mutagenicity:	No data available
Reproductive toxicity:	No data available
Aspiration hazard:	No data available

Toxicology Data for the Ingredient(s):

Test result

Component: Ammonium Hydroxide

CAS-No. 1336-21-6

Acute oral toxicity:	LD50: 350 mg/kg Species: Rat
Acute dermal toxicity:	No data available
Acute inhalation toxicity:	No data available
Skin corrosion/irritation:	Results: Causes severe skin burns
Eye corrosion/irritation:	Results: Causes serious eye damage

Component: Propylene Glycol

CAS-No. 57-55-6

Acute oral toxicity:	LD50: 2,000 mg/kg Species: Rat
Acute dermal toxicity:	LD50: 20,800 mg/kg Species: Rabbit
Acute inhalation toxicity:	No data available



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Skin corrosion/irritation:

Results: Defatting, drying and cracking of skin.

Eye corrosion/irritation:

Results: May irritate eyes.

Further information on toxicology

Unknown Acute Toxicity:

55.00% of this mixture consists of ingredient(s) of unknown toxicity.

12. Ecological Information

Product Information:

Ecotoxicology Assesment

Additional ecological information: Harmful to aquatic life with long lasting effects

55.00% of this mixture consists of ingredient(s) of unknown toxicity.

Ecotoxicity results for product:

Test result

Toxicity to fish:

No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to aquatic algae and cyanobacteria:

No data available

Microorganisms/effect on activated sludge:

No data available

Elimination information (persistence and degradabilit)

Assesment:

No data available

Bioaccumulation:

No data available

Mobility:

No data available



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Biodegradability:

No data available

Results of PBT and vPvB assesment:

PBT: No data available

vPVB: No data available

Further information on ecology

Biochemical Oxygen Demand (BOD):

No information available

Other adverse effects:

No information available

Additional information:

No information available

Ecotoxicity results per component:

Test result

Component: Ammonium Hydroxide

CAS-No. 1336-21-6

Toxicity to fish:

LC50: 8.2 mg/l

Exposure time: 96 h

Species: Pimephales promelas
(freshwater fish)

Toxicity to daphnia and other aquatic invertebrates:

EC50 0.66 mg/l

Exposure time: 48 h

Species: Daphnia magna (water flea)

Toxicity to aquatic algae and cyanobacteria:

No data available

PATRIOT



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Version: 1.0

Initial Issue Date: 24-Aug-2026

Document No.: 46259

13. Disposal considerations

Product disposal:

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.

Waste/containers must be disposed of in accordance with federal, state, and local environmental control regulations.

California:

Hazardous waste status

Chemical name:

Ammonium Hydroxide

CAS-No.

1336-21-6

Status

Toxic

Corrosive

Container disposal:

Empty remaining contents and dispose of any unused product. Empty containers should be taken to an approved waste handling facility for recycling or disposal.

14. Transportation Information

DOT

Not regulated as dangerous goods

UN-no:

Proper shipping name or technical name:

IATA

Not regulated as dangerous goods

UN-no:

Proper shipping name or technical name:



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

IMDG Not regulated as dangerous goods

UN-no:

Proper shipping name or technical name:

ADR Not regulated as dangerous goods

UN-no:

Proper shipping name or technical name:

DOT, IATA, IMDG, ADR

Packagin group: Not regulated as dangerous goods

Special precautions: Not regulated as dangerous goods

EMS-No: Not regulated as dangerous goods

Environmental hazards: Not regulated as dangerous goods

Special markings:

DOT Not regulated as dangerous goods

IATA Not regulated as dangerous goods

IMDG Not regulated as dangerous goods

ADR Not regulated as dangerous goods

Transport hazard class(es): Not regulated as dangerous goods

DOT, IATA, IMDG, ADR Class:

Label: Not regulated as dangerous goods

UN "Model Regulation": Not regulated as dangerous goods

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

Not applicable for product as supplied

Further information for transport

No further information

PATRIOT



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

15. Regulatory Information

Notification status

TSCA

YES. All chemical substances in this product are either listed on the TSCA inventory or in compliance with a TSCA inventory exemption.

For explanation of abbreviations, see Section 16.

U.S. Federal Regulations:

<u>CERCLA:</u>	<u>Component:</u>	<u>CAS-No.</u>	<u>RQ (lbs.)</u>	<u>RQ (kg.)</u>
Hazardous substance list (40 CFR 302.4)	Ammonium Hydroxide	1336-21-6	1,000	454

SARA 311/312: Hazards:	Acute Health Hazard	No
	Chronic Health Hazard	No
	Fire Hazard	No
	Sudden release of pressure hazard	No
	Reactive Hazard	No

SARA 313 (TRI): The following component(s) may be subject to reporting levels established by SARA Title III, Section 313.

<u>Toxic chemical release inventory (40 CFR Part 372)</u>	<u>Component:</u>	<u>CAS-No.</u>	<u>Threshold value, %</u>
	Ammonium Hydroxide	1336-21-6	1.0

Clean Water Act: The following chemical(s) in this material are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<u>Component:</u>	<u>CAS-No.</u>	<u>RQ (lbs.)</u>	<u>Hazardous substance</u>
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PATRIOT



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

Ammonium Hydroxide

1336-21-6

1,000

X

California Prop 65:

Warning: This product does contain chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

Component

CAS No.

Ethyl Acrylate

140-88-5

Massachusetts:

Component

CAS No.

Right-to-Know

Ammonium Hydroxide

1336-21-6

Components:

Pennsylvania:

Component

CAS No.

Right-to-Know

Ammonium Hydroxide

1336-21-6

Components:

New Jersey:

Component

CAS No.

Right-to-Know

Ammonium Hydroxide

1336-21-6

Components:

U.S. EPA label

EPA Pesticide Registration Number:

Not applicable

Information:

16. Other Information

Full text of H-Statements

Component: **Ammonium Hydroxide (CAS-No. 1336-21-6)**

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

Further information

HMIS Classification

Health Hazard:

1

Flammability:

0

PATRIOT



Safety Data Sheet
STONE & MULCH GLUE (CONCENTRATE)

Revision Date:	New	Initial Issue Date:	24-Aug-2026
Version:	1.0	Document No.:	46259

NFPA Classification	Physical Hazards:	0	
	Health Hazard:	1	
	Fire Hazard:	0	
	Reactivity Hazard:	0	

PATRIOT



Safety Data Sheet

STONE & MULCH GLUE (CONCENTRATE)

Revision Date: New

Initial Issue Date: 24-Aug-2026

Version: 1.0

Document No.: 46259

REACH	1907/2006 (EU)
CH INV	Switzerland, New notified substances and declared preparations.
TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
NDSL	Canadian Non-Domestic Substances List (NDSL)
AICS	Australia Inventory of Chemical Substances
NZIoC	New Zealand Inventory of Chemical Substances
ENCS	Japan, ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan, ISHL - Inventory of Chemical Substances
KECL	Korea, Korean Existing Chemicals Inventory (KECL)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
ELINCS	European List of Notified Chemical Substances
ECL	Korea Inventory of Existing
WHMIS	Canadian Workplace Hazardous Materials Information System

SDS prepared by: PATRIOT Technical Division

SDS prepared on: 24-Aug-2026

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