



**Safety Data Sheet**  
**Concrete/Masonry Restoration Cleaner**  
 Bluestone Products™  
 Version 1.1

**Bluestone Products™,**  
**A TCC Materials Company**  
 2025 Centre Pointe Boulevard  
 Mendota Heights, MN 55120-1221

**Emergency Telephone Number:**  
 651-688-9116  
**Information Telephone Number**  
 651-905-8137

**Revision Date**  
 November 2020

**Section 1: Product Identification**

Product Type: Concrete Cleaner

**Product Name:**

Akona Concrete/Masonry Restoration Cleaner

**Section 2: Hazard Identification**

Product can cause eye irritation from direct contact.

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. It is categorized as a Health Hazard – Skin Irritant Category 3 and Eye Irritant – Category 2A.



**Warning.**

**Applicable hazard statements:**

- H319: Causes serious eye irritation.
- H316: Causes mild skin irritation

**Applicable Precautionary Statements**

- P264: Wash hands thoroughly after handling.
- P280: Wear eye protection/face protection

P332+P313: If skin irritation occurs, get medical attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313: If eye irritation persists, Get medical attention.

HMIS® Rating:    Health: 1    Fire: 0    Reactivity: 0  
*HMIS® is a registered trademark of the National Paint and Coatings Association  
 Rating is based on potential for ethanol.*

**Section 3: Hazardous Ingredients/Composition**

Ingredient	Typical Percentage	CAS #
Water.....	35-65%	7732-18-5
Citric acid .....	25-35%	77-92-9
Nonionic surfactant.....	<3%	*

\*Specific chemical identities withheld as trade secret. It is available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

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#### **Section 4: First Aid Measures**

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**Inhalation:**

Unlikely to be an inhalation hazard.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of water. At least fifteen minutes of flushing is recommended for any chemical contact. If any irritation persists, get medical attention.

**Skin Contact:**

Wash off with soap and water.

**Ingestion:**

Check with the Poison Control Center or a doctor. Do not induce vomiting. .

**Symptoms of overexposure:** Direct contact can cause severe eye irritation. Repeated or extensive contact can cause skin irritation. May cause nose and throat irritation, with symptoms of runny nose, coughing, and chest pain, if misted, but not a likely route of exposure.

**Note to physician:** Treat according to symptoms. No known specific antidote.

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#### **Section 5: Fire Fighting Measures**

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**Fire extinguishing media:** Appropriate for surrounding materials (carbon dioxide, water spray, dry chemical, foam).

**Special fire-fighting procedures:** none

**Unusual fire and explosion hazards:** None expected

**Hazardous combustion products:** carbon monoxide, carbon dioxide

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#### **Section 6: Accidental Release Measures**

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Contain and soak up with absorbent material. Clean area with water.

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#### **Section 7: Handling and Storage**

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To protect the product, keep from freezing or excessive heat.

Keep container tightly closed.

Wash hands after use.

Do not eat, drink, or use tobacco products when handling any chemical products.

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#### **Section 8: Exposure Controls/Personal Protection**

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**Occupational Exposure Limits:**

None established

(No OSHA PEL. No ACGIH TLV®. No NIOSH REL)

**Engineering Controls:**

No special measures are needed.

Local exhaust ventilation is not required



**Personal protective equipment**

**Respiratory protection:** Not required under conditions of normal use.

**Skin protection:** Wear water-impermeable gloves such as nitrile, PVC, or natural rubber gloves, particularly for prolonged contact. Use face shield if splashing is likely.

**Eye protection:** Wear eye protection (chemical safety goggles to protect against splashes).

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**Section 9: Physical and Chemical Properties**

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**Appearance and odor:** odorless, amber colored liquid

**Flash point:** noncombustible.

**Flammable limits:** N/A

**Boiling Point:** ~212°F (estimated)

**Freezing point:** ~ 32°F (estimated)

**Specific Gravity:** 1.05

**Solubility in water:** miscible

**pH:** 1.7-2.3

**Evaporation rate (butyl acetate = 1):** <1 (equivalent to water)

**Vapor pressure:** negligible

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**Section 10: Stability and Reactivity**

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**Stability:** stable

**Conditions to avoid:** none known.

**Incompatibility:** strong oxidizing agents, reducers, bases, nitrates

**Hazardous polymerization:** will not occur

**Hazardous decomposition products:** none likely unless material is in a fire.

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**Section 11: Toxicological Information**

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Not considered acutely toxic.

No ingredients are listed as carcinogenic according to IARC, ACGIH, NTP, or OSHA.

**Citric acid**

Citric acid is a naturally occurring water soluble organic acid, commonly used in processed food and beverages.

RTECS# GE735000

NOAEL for repeated dose toxicity: 1200 mg/kg/d.

Low acute oral toxicity: LD50 for rats and mice reported between 3000 and 12,000 mg/kg. Effects of high doses included acidosis, calcium deficiency, nervous system effects, severe damage to stomach mucosa. Reported to be slightly irritating to rabbit skin in two studies. 30% aqueous solution reported less irritation.

Acute eye irritation/corrosion test in rabbits according to OECD 405: highly irritating.

Aerosolized solutions (81 mg/m<sup>3</sup> of 6% solution) caused coughing in guinea pigs.



Surfactant

LD50 oral, rat: 4000 mg/kg

LOAEL for rats, 4 hour whole body exposure: 280 mg/m<sup>3</sup> (eye and nasal irritation)

EC50, Daphnia magna, 14 mg/L for 48 hours (included in National Library of Medicine HSDB)

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**Section 12: Ecological Information**

**Ecotoxicity** Product as a whole has not been tested. Ingredients are not considered toxic to fish, crustaceans, or algae

**Persistence and degradability:** readily biodegrades

**Mobility in soil:** Based on ingredients, mobile. Unlikely to adsorb onto soil or sediment.

**Bioaccumulation:** based on ingredients, not likely to bioaccumulate.

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**Section 13: Disposal Considerations**

Do not sewer or dump on the ground

As provided, not a RCRA-regulated waste.

Dispose of in accordance with federal, state, and local regulations.

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**Section 14: Transportation**

Not a DOT-regulated hazardous material. Not classified as dangerous goods for DOT, IATA, IMDG, TDG

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**Section 15: Regulatory Information**

This product does not contain 0.1% or more of any

- chemicals regulated under:

CERCLA

SARA 302 EHS

SARA 313

- Hazardous Air Pollutants.

- chemicals known to the state of California to cause cancer or reproductive effects

Citric acid is listed on the New Jersey Right to Know Hazardous Substance List.

Citric acid is listed as an acute health hazard under SARA 311/312.

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**Section 16: Other Information**

Additional information on the product is available at: [www.tccmaterials.com](http://www.tccmaterials.com)

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