



Safety Data Sheet
Concrete/Masonry Restoration Cleaner
 © Akona Manufacturing LLC.
 Version 1.0

Akona Manufacturing, LLC.
A TCC Materials Company
 2025 Centre Pointe Boulevard, Suite 300
 Mendota Heights, MN 55120-1221

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

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 January 2013

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).



Section 4: First Aid Measures

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.

Section 5: Fire Fighting Measures

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

Section 6: Accidental Release Measures

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

Section 7: Handling and Storage

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.

Section 8: Exposure Controls/Personal Protection

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).

Section 9: Physical and Chemical Properties

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

Section 10: Stability and Reactivity

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.

Section 11: Toxicological Information

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/m³ 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/m³ (eye and nasal irritation)

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

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.

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.

Section 14: Transportation

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

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.

Section 16: Other Information

Additional information on the product is available at: www.tccmaterials.com

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.