



Safety Data Sheet

ALKEMIST | Industrial & Specialty Chemicals

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Professional Tile, Concrete & Hard Surface Acid Cleaner

ALKEMIST MURIATIC ACID CLEANER

Professional Tile, Concrete & Hard Surface Acid Cleaner

Document No: SDS-ALK-MAC-001

Revision: 1.0

Issue Date: 18 June 2026

Product Type: Muriatic acid cleaner

Brand: ALKEMIST

Email: admin@alkemist.org

Emergency: +92 301 9220000

Use: Professional / industrial only

1. IDENTIFICATION

Product Identifier	ALKEMIST Muriatic Acid Cleaner
Recommended Use	Professional tile cleaning, concrete cleaning, cement residue removal, grout haze removal, rust stain removal, hard water scale removal, masonry cleaning, construction cleanup and industrial hard surface cleaning.
Use Restriction	Professional and industrial use only. Not for consumer use. Not for food-contact applications. Do not use on marble, limestone, travertine, terrazzo, aluminum, zinc, sensitive metals or acid-sensitive surfaces.
Supplier	ALKEMIST
Emergency Contact	+92 301 9220000
Email	admin@alkemist.org



2. HAZARD IDENTIFICATION

DANGER: Causes severe skin burns and eye damage. May be corrosive to metals. May cause respiratory irritation.



GHS Classification	Skin Corrosion Category 1B; Serious Eye Damage Category 1; STOT SE Category 3 respiratory irritation; Corrosive to Metals Category 1.
Signal Word	DANGER
Hazard Statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Exact formulation and additive identities are proprietary. Hazardous components are disclosed in ranges for safety communication.

Component / Description	CAS No.	Concentration Range	Function
Hydrochloric Acid / Muriatic Acid Solution	7647-01-0	20–35%	Active acid cleaner, cement remover, scale dissolver.
Proprietary Wetting & Penetration Additive	Trade Secret	0.1–3%	Improves surface contact and cleaning performance.
Proprietary Corrosion Control Additive	Trade Secret	0.1–2%	Helps control metal attack during short contact cleaning.
Deionized Water / Diluent	7732-18-5	Balance	Carrier and dilution medium.

4. FIRST AID MEASURES

Inhalation	Move to fresh air immediately. Keep comfortable for breathing. Seek medical attention if irritation persists.
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Skin Contact	Immediately flush with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention.
Eye Contact	Immediately flush eyes with water for at least 15 minutes. Remove contact lenses if easy. Obtain emergency medical treatment.
Ingestion	Rinse mouth. Do not induce vomiting. Immediate medical attention required.

5. FIRE FIGHTING MEASURES

Suitable Media	Use media suitable for surrounding fire.
Specific Hazards	Not combustible. Reaction with metals may generate hydrogen gas. Heating may release irritating acid fumes.
Protection	Firefighters should wear full protective gear and SCBA.

6. ACCIDENTAL RELEASE MEASURES

Evacuate unnecessary personnel. Ventilate area. Wear acid-resistant gloves, goggles, face shield and protective clothing. Contain spill, neutralize carefully with approved alkaline neutralizer if trained, and collect residue for disposal. Prevent release to drains and waterways.

7. HANDLING AND STORAGE

Handling	Avoid breathing vapors/mist. Avoid contact with skin and eyes. Never mix with bleach, oxidizers, ammonia, alkalis or other cleaners. Add acid to water when diluting, never water into acid.
Storage	Store in corrosion-resistant containers in cool, dry, well-ventilated area. Keep tightly closed and away from incompatible materials.
Incompatibles	Bleach, oxidizers, alkalis, cyanides, sulfides, reactive metals, aluminum, zinc and galvanized surfaces.

8. EXPOSURE CONTROLS / PPE

Engineering Controls	Local exhaust ventilation recommended. Avoid mist generation.
Eye / Face	Chemical goggles and face shield.
Hands	Acid-resistant gloves.



Body	Chemical-resistant apron, boots and protective clothing.
Respiratory	NIOSH-approved acid gas respirator where ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid	Color	Colorless to pale yellow
Odor	Sharp acidic odor	pH	<1
Specific Gravity	1.10–1.18	Boiling Point	Approx. 100°C
Flash Point	Not applicable	Water Solubility	Complete
VOC	Negligible	Flammability	Not flammable

10. STABILITY AND REACTIVITY

Stable under recommended storage. Reacts with alkalis, oxidizers and reactive metals. May release hydrogen gas with metals and acid fumes under high heat.

11. TOXICOLOGICAL INFORMATION

Likely routes: inhalation, skin contact, eye contact and ingestion. Causes severe skin burns and permanent eye damage. Vapors or mist may irritate respiratory tract.

12. ECOLOGICAL INFORMATION

Avoid uncontrolled release. Large releases may alter aquatic pH and harm aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Dispose according to local regulations. Neutralization may be required. Spent solution may contain dissolved cement, metals, rust and construction residues.

14. TRANSPORT INFORMATION

UN Number	UN1789
Proper Shipping Name	Hydrochloric Acid



Hazard Class	8
Packing Group	II
Marine Pollutant	No

15. REGULATORY INFORMATION

Prepared according to GHS / OSHA-style hazard communication for professional industrial chemical use. Verify final labeling, transport and workplace requirements by destination country.

16. OTHER INFORMATION

Issue Date: 18 June 2026. Revision: 1.0. This SDS is for professional and industrial users and must be reviewed before handling.

Prepared by
ALKEMIST

Signature:

Date:

Approved by
Technical / Compliance Responsible Person

Signature:

Date:

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