



SAFETY DATA SHEET

ALKEMIST CEMENT REMOVER

Detailed Technical SDS | GHS / OSHA Workplace Hazard Communication Format

ALKEMIST CEMENT REMOVER

Heavy-Duty Industrial & Marine (Concrete, Mortar & Scale Dissolver)

WARNING

Chemical basis: Proprietary organic acid blend, inhibited acid surfactant complex, and penetrating wetting agents in aqueous solution.

Primary hazards: Causes severe skin burns and eye damage; may cause respiratory irritation; harmful if swallowed.

Document Control

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Supplier / Manufacturer

Comapany: ALKEMIST | WATER AND CHEMICALS SOLUTIONS (SMC-PRIVATE) LIMITED
Address: Office No. 32, Usman Plaza, Alipur Road, Hafizabad City, Pakistan
Contact/Emergency: 0315 237 2222
Email: admin@waterchemicalssolution.com
Website: waterchemicalssolution.com

ALKEMIST® | Industrial & Specialty Chemicals

ALKEMIST | WATER AND CHEMICALS SOLUTIONS (SMC-PRIVATE) LIMITED

Office No. 32, Usman Plaza, Alipur Road, Hafizabad City, Pakistan

0315 237 2222

admin@waterchemicalssolution.com

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Table of Contents

1. Identification
2. Hazard Identification
3. Composition / Ingredients
4. First Aid Measures
5. Firefighting Measures
6. Accidental Release Measures
7. Handling and Storage
8. Exposure Controls / PPE
9. Physical and Chemical Properties
10. Stability and Reactivity
11. Toxicological Information
12. Ecological Information
13. Disposal Considerations
14. Transport Information
15. Regulatory Information
16. Other Information

SECTION 1: Identification of the Substance/Mixture and Company

PRODUCT NAME /
IDENTIFIER

ALKEMIST CEMENT REMOVER

PRODUCT CODE /
INTERNAL REF.

ALK-CR-CHEM

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CHEMICAL FAMILY / DESCRIPTION	Aqueous formulation of inhibited organic acids, surfactant blends, and penetrating agents designed for cement and mortar dissolution.
RECOMMENDED USES	Professional removal of hardened cement, concrete, mortar, lime scale, and grout from construction machinery, scaffolding, mixers, brickwork, and metallic tools.
USES ADVISED AGAINST	Consumer retail application without proper PPE, unverified contact with polished marble or limestone surfaces without neutralization, and spraying in unventilated confined spaces.
EMERGENCY OVERVIEW	Clear to amber liquid with mild characteristic acidic odour. Corrosive liquid. Causes severe skin burns and eye damage. Avoid inhalation of mist. Harmful if swallowed.

Industrial Operator Note: Prior to application, verify compatibility with sensitive metal substrates (such as aluminum or zinc alloys) and ensure adequate water rinsing and neutralization procedures are in place.

SECTION 2: Hazard Identification

2.1 GHS CLASSIFICATION OF THE MIXTURE

Classification according to UN GHS Revision 8 and national workplace hazard communication standards:

HAZARD CLASS	CATEGORY	BASIS & HAZARD STATEMENT MAPPING
SKIN CORROSION / IRRITATION	Category 1B	Causes severe skin burns and eye damage (H314). Direct contact destroys skin tissue.
SERIOUS EYE DAMAGE / IRRITATION	Category 1	Causes serious eye damage (H318). Risk of permanent corneal injury.
ACUTE TOXICITY (ORAL)	Category 4	Harmful if swallowed (H302). May cause irritation or burns to gastrointestinal tract.
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	Category 3	May cause respiratory tract irritation (H335). Acid vapours or mists irritate mucous membranes.

2.2 LABEL ELEMENTS

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Signal Word**WARNING****GHS Hazard Pictograms****Corrosion (GHS05) & Exclamation Mark (GHS07)****2.3 HAZARD STATEMENTS**

CODE	HAZARD STATEMENT TEXT
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

2.4 PRECAUTIONARY STATEMENTS

PREVENTION	P260: DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264: WASH SKIN THOROUGHLY AFTER HANDLING. P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
RESPONSE	P301+P330+P331+P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. P303+P361+P353+P363: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. P304+P340+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove

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	contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
STORAGE	P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up.
DISPOSAL	P501: Dispose of contents/container to an approved hazardous waste treatment plant in accordance with local and national environmental regulations.

2.5 OTHER HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Reacts violently with strong alkaline materials (caustics) and hypochlorites (bleach), releasing dangerous chlorine gas or generating high heat. Contact with active metals (e.g., zinc, aluminum) may evolve flammable hydrogen gas.

SECTION 3: Composition / Information on Ingredients

CHEMICAL DESCRIPTION / CATEGORIZED TECHNICAL NAME	CAS NUMBER / EC NUMBER	GHS CLASSIFICATION	CONCENTRATION RANGE (% W/W)
PROPRIETARY ORGANIC ACID BLEND	CAS: Proprietary / Blend EC: Confidential	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Acute Tox. 4 (H302)	≥ 15 - ≤ 35 %
WETTING AGENTS & CORROSION INHIBITOR COMPLEX	CAS: Proprietary EC: Proprietary	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) STOT SE 3 (H335)	≥ 1 - ≤ 10 %
STABILIZING CARRIER	CAS: 7732-18-5 EC: 231-791-2	Not Classified	Balance to 100%

*Note: Exact component percentages constitute confidential proprietary trade secrets. Detailed formulation disclosure can be provided to licensed medical or emergency personnel upon request.

SECTION 4: First Aid Measures

4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES

ROUTE OF EXPOSURE	IMMEDIATE ACTION REQUIRED	FOLLOW-UP & MEDICAL ESCALATION
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INHALATION	Remove victim to fresh air immediately. If not breathing, give artificial respiration. Keep patient warm and at rest.	Seek immediate medical attention if respiratory irritation, coughing, or shortness of breath persists.
SKIN CONTACT	Immediately flush affected skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.	Seek prompt medical attention, especially if chemical burns or skin breakdown are observed.
EYE CONTACT	Immediately flush eyes gently with running water for at least 20-30 minutes, holding eyelids open. Remove contact lenses if present and easy to do.	GET IMMEDIATE MEDICAL ATTENTION / OPHTHALMOLOGIST EVALUATION. Risk of permanent eye injury.
INGESTION	Rinse mouth thoroughly with water. Do NOT induce vomiting. Give 1-2 glasses of water to drink if conscious. Never give anything by mouth to an unconscious person.	CALL A POISON CENTER OR PHYSICIAN IMMEDIATELY. Corrosive substance hazard.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS (ACUTE AND DELAYED)

Inhalation: Irritation of mucous membranes, coughing, sore throat, and shortness of breath.

Skin Contact: Severe skin burns, pain, redness, blistering, and tissue destruction.

Eye Contact: Severe eye damage, corneal burns, irritation, tearing, and potential loss of vision.

Ingestion: Burns to mouth, throat, esophagus, and stomach, accompanied by severe abdominal pain and nausea.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to Physician: Treat symptomatically. Product is acidic (corrosive). If ingested, do not induce vomiting due to risk of esophageal perforation. Supportive care with gastric lavage or dilution should be evaluated by qualified medical professionals.

SECTION 5: Firefighting Measures

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical powder, or carbon dioxide (CO₂) compatible with surrounding fire conditions.

Unsuitable Extinguishing Media: Avoid high-pressure water jets which may splash corrosive liquid.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Fire & Explosion Hazards: Product itself is water-based and non-flammable. However, contact with reactive metals (e.g., aluminum, zinc) may generate flammable hydrogen gas. Closed containers exposed to extreme heat may rupture due to internal pressure build-up.

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5.3 HAZARDOUS COMBUSTION PRODUCTS

Thermal decomposition or combustion under fire conditions may release toxic and irritating gases, including carbon monoxide (CO), carbon dioxide (CO₂), and acidic fumes.

5.4 PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Wear full protective firefighting gear and positive-pressure Self-Contained Breathing Apparatus (SCBA). Prevent runoff water from entering drains or water systems by diking area.

SECTION 6: Accidental Release Measures

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate non-essential personnel. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Wear full acid-resistant personal protective equipment specified in Section 8 (rubber/PVC suit, acid-resistant gloves, chemical goggles, face shield, and respirator if mist is present).

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent spilled product from entering soil, waterways, storm drains, or sewers. Acidic spills can lower water pH and harm aquatic ecosystems. Notify local environmental authorities if significant spill enters public waters.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

SPILL MAGNITUDE	RECOMMENDED CONTAINMENT & REMEDIATION PROTOCOL
SMALL SPILL (< 200 L)	Absorb with inert absorbent material (e.g., sand, earth, vermiculite). Carefully neutralize residual acid using lime, soda ash, or sodium bicarbonate. Collect neutralized waste into leak-tight chemical drums for disposal.
LARGE SPILL (≥ 200 L / BULK)	Dike and bund spill area using earth or sandbags to prevent run-off. Pump liquid into secure acid-resistant polyethylene or stainless-steel recovery containers. Wash remaining surfaces thoroughly with water and neutralizing agent.

SECTION 7: Handling and Storage

7.1 PRECAUTIONS FOR SAFE HANDLING

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Use appropriate personal protective equipment (see Section 8). Do not breathe vapours or spray mists. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. When diluting, always add acid to water slowly with agitation—never add water to acid. Wash thoroughly after handling.

7.2 GENERAL OCCUPATIONAL HYGIENE

Do not eat, drink, or smoke in work areas. Wash hands thoroughly before eating or using restroom facilities. Remove contaminated clothing and wash before reuse.

7.3 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in original container in a cool, dry, well-ventilated area away from direct sunlight. Keep containers securely closed when not in use. Store away from strong bases (caustics), active metals, hypochlorites (bleach), and food/feed items.

7.4 PACKAGING AND MATERIALS COMPATIBILITY

MATERIAL CATEGORY	COMPATIBILITY ASSESSMENT & GUIDANCE
SUITABLE STORAGE MATERIALS	High-Density Polyethylene (HDPE), Polypropylene (PP), PVC, and Rubber-lined or acid-resistant steel containers.
UNSUITABLE / RESTRICTED MATERIALS	Unlined carbon steel, aluminum, copper, brass, zinc, and galvanized metals (risk of corrosion and hydrogen gas generation).

SECTION 8: Exposure Controls / Personal Protection

8.1 OCCUPATIONAL EXPOSURE LIMITS (OELS)

COMPONENT DESCRIPTION	CAS NO.	OSHA PEL (TWA)	ACGIH TLV (TWA)	NIOSH REL (TWA)
PROPRIETARY ORGANIC ACID BLEND	Proprietary	Not Established (N/E)	Not Established (N/E)	Not Established (N/E)
SURFACTANT & INHIBITOR ADDITIVES	Proprietary	Not Established (N/E)	Not Established (N/E)	Not Established (N/E)

8.2 ENGINEERING CONTROLS

Ensure adequate local exhaust ventilation to maintain airborne acid mists below recommended threshold levels. Provide emergency eyewash stations and safety shower facilities in close proximity to work areas.

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8.3 INDIVIDUAL PROTECTION MEASURES (PERSONAL PROTECTIVE EQUIPMENT - PPE)

PROTECTION CATEGORY	SPECIFIED PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD
EYE / FACE PROTECTION	Wear chemical splash goggles and a full-face shield complying with EN 166 or ANSI Z87.1 standards to protect against liquid splashes.
HAND PROTECTION	Wear acid-resistant protective gloves (e.g., Neoprene, Nitrile, PVC, or Butyl rubber) complying with EN 374. Inspect gloves before use.
SKIN AND BODY	Wear acid-resistant aprons, full protective suits, and rubber boots to prevent skin contact with corrosive liquids.
RESPIRATORY PROTECTION	If ventilation is insufficient or mists/vapours are generated, wear an approved respirator equipped with acid gas and particulate filter cartridges.

SECTION 9: Physical and Chemical Properties

Verified Laboratory QC Testing Data: Physical and chemical parameters reported below represent tested finished-product batch metrics.

PHYSICAL PARAMETER	MEASURED VALUE / METRIC	TEST METHOD / LABORATORY TECHNICAL NOTE
APPEARANCE	Clear to Amber Liquid	Visual QC Inspection @ 25°C
ODOUR	Mild acidic / characteristic odour	Subjective Organoleptic Evaluation
PH (NEAT / DIRECT @ 25°C)	< 1.0 (Strongly Acidic)	ASTM E70 Standard Test Method
RELATIVE DENSITY / SPECIFIC GRAVITY (SG @ 20°C)	1.08 - 1.12	Pycnometer / Digital Density Meter (g/cm³)
SOLUBILITY IN WATER	Complete / 100% Miscible	Fully soluble in aqueous media
BOILING POINT / RANGE	Approx. 100°C (212°F)	Aqueous solution base

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FREEZING / POUR POINT	Approx. 0°C (32°F)	Freezing point of water base
FLASH POINT	Not Applicable (Non-flammable)	Closed cup test
VAPOUR PRESSURE (@ 20°C)	Similar to water	Aqueous vapour pressure
DECOMPOSITION TEMPERATURE	> 150°C (> 302°F)	Thermal stability evaluation

SECTION 10: Stability and Reactivity

10.1 REACTIVITY

REACTS VIGOROUSLY WITH STRONG ALKALINE MATERIALS AND ACTIVE METALS, RELEASING HEAT AND POTENTIALLY HYDROGEN GAS.

10.2 CHEMICAL STABILITY	Stable under normal ambient temperature and storage conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	Exothermic reaction with bases. Contact with hypochlorites (bleach) releases toxic chlorine gas.
10.4 CONDITIONS TO AVOID	Extreme heat, direct sunlight, and contact with incompatible materials.
10.5 INCOMPATIBLE MATERIALS	Strong bases (caustics), strong oxidizing agents, active metals (aluminum, zinc, brass), and chlorine-based bleach products.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition may produce carbon monoxide, carbon dioxide, and acidic vapours.

SECTION 11: Toxicological Information

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

TOXICOLOGICAL ENDPOINT	MIXTURE ASSESSMENT	DETAILED EXPERIMENTAL & CLINICAL FINDINGS
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ACUTE ORAL TOXICITY	Category 4 (Harmful if swallowed)	Harmful if swallowed. Causes burns and irritation to the gastrointestinal tract.
ACUTE DERMAL TOXICITY	Not Classified (LD50 > 2,000 mg/kg)	Product is corrosive and causes severe skin burns upon contact.
SKIN CORROSION / IRRITATION	Category 1B (Corrosive)	Causes severe skin burns and permanent tissue damage upon prolonged contact.
SERIOUS EYE DAMAGE / IRRITATION	Category 1 (Corrosive)	Causes serious eye damage and risk of permanent corneal opacity or blindness.
RESPIRATORY SENSITIZATION	Not Classified	Inhalation of mists may cause respiratory tract irritation (Category 3 STOT SE).
CARCINOGENICITY	Not Classified	No component present at levels $\geq 0.1\%$ is classified as a carcinogen by IARC, NTP, or OSHA.

SECTION 12: Ecological Information

12.1 ECOTOXICITY ASSESSMENT

Due to its low pH (strongly acidic), unneutralized product is harmful to aquatic life. Proper dilution and neutralization eliminate ecotoxic hazards.

12.2 PERSISTENCE AND DEGRADABILITY

Organic acid components are readily biodegradable in accordance with standard environmental test protocols.

12.3 BIOACCUMULATIVE POTENTIAL

Low potential for bioaccumulation due to high water solubility and rapid biodegradation.

12.4 MOBILITY IN SOIL

High mobility in soil due to aqueous solubility. Acidic nature may lower soil pH locally prior to neutralization.

SECTION 13: Disposal Considerations

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13.1 WASTE TREATMENT METHODS

Product Waste: Do not dispose of waste into sewer systems, watercourses, or soil. Neutralize carefully under controlled conditions or dispose of via an authorized hazardous waste management contractor in compliance with local regulations.

Contaminated Packaging: Empty containers may retain product residues. Rinse thoroughly with water before recycling or dispose of as hazardous chemical packaging.

SECTION 14: Transport Information

Transport Regulatory Status: Regulated as a corrosive liquid for transport across road, rail, sea, and air modalities due to low pH (< 1.0).

TRANSPORT MODAL	UN NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PACKING GROUP
US DOT / ADR (LAND)	UN 3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains Organic Acid Blend)	Class 8	Packing Group III
IMDG (SEA TRANSPORT)	UN 3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains Organic Acid Blend)	Class 8	Packing Group III / EmS: F-A, S-B
IATA / ICAO (AIR)	UN 3264	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Organic Acid Blend)	Class 8	Packing Group III

SECTION 15: Regulatory Information

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

REGULATORY JURISDICTION	REGULATORY FRAMEWORK STATUS & COMPLIANCE SUMMARY
NATIONAL REGULATIONS (PAKISTAN)	Complies with local industrial chemical handling, safety, and environmental protection guidelines.
OSHA HAZARD COMMUNICATION	Classified as hazardous under 29 CFR 1910.1200 (Skin corrosion, Eye damage, Acute toxicity).

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TSCA INVENTORY

All chemical components are listed on or exempt from the TSCA Chemical Substance Inventory.

SECTION 16: Other Information

16.1 HAZARD RATING SYSTEMS (NFPA 704 & HMIS)

NFPA 704 Rating

Health: 3 (Serious / Corrosive)
Flammability: 0 (Non-flammable)
Instability: 0 (Minimal)
Special: None

HMIS Rating

Health: 3 (Serious / Corrosive)
Flammability: 0 (Non-flammable)
Physical Hazard: 1 (Reactive)
Personal Protection: H (Goggles + Gloves + Apron + Face Shield)

16.2 KEY ABBREVIATIONS & ACRONYMS

CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
GHS	Globally Harmonized System	PEL	Permissible Exposure Limit
IATA	International Air Transport Association	TLV	Threshold Limit Value

16.3 REVISION HISTORY & DOCUMENT METADATA

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1.0	19 August 2026	Initial official issue of GHS Safety Data Sheet for ALKEMIST CEMENT REMOVER manufactured by ALKEMIST Water and Chemicals Solutions (SMC-Private) Limited, Hafizabad.

16.4 DISCLAIMER & LIABILITY LIMITATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. ALKEMIST Water and Chemicals Solutions (SMC-Private) Limited assumes no legal responsibility for use or reliance upon these data.

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