



SAFETY DATA SHEET

ULTRASONIC CLEANER SOLUTION

Precision Industrial & Laboratory Ultrasonic Cleaning Fluid | GHS / OSHA Format

ULTRASONIC CLEANER

High-Performance Aqueous Ultrasonic Detergent & Degreasing Solution

WARNING

Chemical basis: Aqueous surfactant blend, alkaline builders, biodegradable sequestering agents, and corrosion inhibitors formulated for ultrasonic cavitation tanks.

Primary hazards: Causes serious eye irritation; causes skin irritation.

Handling & Technical Notice: This Safety Data Sheet provides comprehensive workplace hazard communication for Alkemist Ultrasonic Cleaner Solution. Formulated for professional ultrasonic cleaning baths, jewelry cleaning, engine parts degreasing, and laboratory glassware washing. Avoid contact with eyes and prolonged skin contact.

Document Control

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Supplier / Manufacturer

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SECTION 1: Identification of the Substance/Mixture and Company

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PRODUCT NAME /
IDENTIFIER

ULTRASONIC CLEANER LIQUID SOLUTION

PRODUCT CODE / INTERNAL REF.	ALK-UC-SOL
CHEMICAL FAMILY / DESCRIPTION	Aqueous alkaline surfactant and detergent formulation engineered for ultrasonic cavitation cleaning tanks.
RECOMMENDED USES	Professional ultrasonic cleaning of mechanical components, precision metal parts, jewelry, surgical instruments, and laboratory glassware.
USES ADVISED AGAINST	Consumer retail use without appropriate PPE, unventilated spraying, and direct contact with sensitive aluminum alloys without prior compatibility testing.
EMERGENCY OVERVIEW	Clear to pale amber liquid with mild detergent odour. Causes serious eye irritation and skin irritation. Non-flammable aqueous solution.

Industrial Operator Note: Maintain bath temperature within recommended manufacturer parameters (typically 40°C - 60°C) for optimal ultrasonic cavitation efficiency.

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 2	Causes skin irritation (H315). Prolonged contact causes localized redness.
SERIOUS EYE DAMAGE / IRRITATION	Category 2A	Causes serious eye irritation (H319). Direct contact causes stinging and tearing.

2.2 LABEL ELEMENTS

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Signal Word

WARNING

GHS Hazard Pictograms



Exclamation Mark (GHS07)

2.3 HAZARD STATEMENTS

CODE	HAZARD STATEMENT TEXT
H315	Causes skin irritation.
H319	Causes serious eye irritation.

2.4 PRECAUTIONARY STATEMENTS

PREVENTION	P264: WASH SKIN THOROUGHLY AFTER HANDLING. P280: WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
RESPONSE	P302+P352: IF ON SKIN: Wash with plenty of water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse.
STORAGE	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
DISPOSAL	P501: Dispose of contents/container to an approved local environmental waste treatment facility.

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2.5 OTHER HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Prolonged immersion or contact may remove natural skin oils, leading to dryness or dermatitis. Heated ultrasonic baths may generate mild surfactant mists causing respiratory irritation.

SECTION 3: Composition / Information on Ingredients

Technical Name & CBI Declaration: Specific surfactant ratios, builder formulas, and proprietary corrosion inhibitors are protected trade secrets under GHS confidential business information provisions. General categorized technical names and concentration envelopes are provided below for full workplace safety compliance.

CHEMICAL DESCRIPTION / CATEGORIZED TECHNICAL NAME	CAS NUMBER / EC NUMBER	GHS CLASSIFICATION	CONCENTRATION RANGE (% W/W)
BIODEGRADABLE SURFACTANT BLEND (ALCOHOL ETHOXYLATE & FATTY ACID SURFACTANTS)	CAS: Proprietary / Blend EC: Confidential	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	≥ 5 - ≤ 20 % (Active Surfactant)
ALKALINE BUILDERS & SEQUESTERING AGENTS (CHELATING & WATER SOFTENING COMPLEX)	CAS: Proprietary EC: Confidential	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)	≥ 2 - ≤ 10 % (Builder Envelope)
WATER & STABILIZING CARRIER (DEMINERALIZED AQUEOUS SOLVENT CARRIER)	CAS: 7732-18-5 EC: 231-791-2	Not Classified	Balance to 100% (Aqueous Base)

*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. Keep patient warm and at rest.	Seek medical attention if respiratory irritation or coughing persists.
SKIN CONTACT	Wash affected skin thoroughly with soap and plenty of water. Remove contaminated clothing.	Seek medical attention if skin irritation or redness develops. Wash clothing before reuse.
EYE CONTACT	Immediately flush eyes gently with running water for at least 15-20 minutes, holding eyelids open. Remove contact lenses if present and easy to do.	Seek prompt medical attention if eye irritation or redness continues.
INGESTION	Rinse mouth thoroughly with water. Do NOT induce vomiting. Give 1-2 glasses of water to drink if conscious.	CALL A POISON CENTER OR PHYSICIAN IMMEDIATELY.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS (ACUTE AND DELAYED)

Inhalation: Mists from heated baths may cause mild respiratory irritation.

Skin Contact: Causes skin irritation, redness, and dryness upon prolonged contact.

Eye Contact: Causes serious eye irritation, stinging, and redness.

Ingestion: May cause gastrointestinal irritation, nausea, and discomfort.

4.4 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to Physician: Treat symptomatically. Provide supportive care as needed.

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: None known for aqueous solution.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Fire & Explosion Hazards: Product is water-based and non-flammable. Closed containers may rupture when exposed to extreme heat.

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5.3 HAZARDOUS COMBUSTION PRODUCTS

Thermal decomposition under fire conditions may release carbon monoxide (CO), carbon dioxide (CO₂), and minor organic 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.

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 and eyes. Wear personal protective equipment specified in Section 8 (gloves, safety goggles, lab coat).

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent spilled product from entering soil, waterways, storm drains, or sewers. Notify local environmental authorities if significant quantities enter 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., dry sand, earth, vermiculite). Collect material into leak-tight containers. Wash spill area thoroughly with water.
LARGE SPILL (≥ 200 L / BULK)	Dike and bund spill area using earth or sandbags. Pump liquid into secure recovery containers. Wash remaining surfaces thoroughly with water.

SECTION 7: Handling and Storage

7.1 PRECAUTIONS FOR SAFE HANDLING

Use appropriate personal protective equipment (see Section 8). Avoid contact with eyes and skin. Ensure adequate ventilation in ultrasonic cleaning areas. Wash thoroughly after handling.

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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. Keep containers securely closed when not in use. Store away from strong acids and oxidizing agents.

7.4 PACKAGING AND MATERIALS COMPATIBILITY

MATERIAL CATEGORY	COMPATIBILITY ASSESSMENT & GUIDANCE
SUITABLE STORAGE MATERIALS	High-Density Polyethylene (HDPE), Polypropylene (PP), Stainless Steel, and Glass containers.
UNSUITABLE / RESTRICTED MATERIALS	Unlined reactive metals without compatibility testing.

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)
SURFACTANT BLEND & BUILDERS	Proprietary	Not Established (N/E)	Not Established (N/E)	Not Established (N/E)

8.2 ENGINEERING CONTROLS

Ensure adequate local exhaust ventilation or general room ventilation where ultrasonic cleaning baths are operated. Provide emergency eyewash stations nearby.

8.3 INDIVIDUAL PROTECTION MEASURES (PERSONAL PROTECTIVE EQUIPMENT - PPE)

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PROTECTION CATEGORY

SPECIFIED PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD

EYE / FACE PROTECTION	Wear chemical splash goggles complying with EN 166 or ANSI Z87.1 standards.
HAND PROTECTION	Wear protective gloves (Nitrile or Neoprene) complying with EN 374.
SKIN AND BODY	Wear suitable work clothing, lab coat, or apron to prevent prolonged contact.
RESPIRATORY PROTECTION	Not normally required unless heated baths generate mists, in which case use an approved respirator.

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 / Customize Colors	Visual QC Inspection @ 25°C
ODOUR	Mild detergent odour	Subjective Organoleptic Evaluation
PH (NEAT / DIRECT @ 25°C)	9.0 - 10.5 (Mildly Alkaline)	ASTM E70 Standard Test Method
RELATIVE DENSITY / SPECIFIC GRAVITY (SG @ 20°C)	1.01 - 1.05	Pycnometer / Digital Density Meter (g/cm ³)
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	Not Applicable	Stable under normal conditions

SECTION 10: Stability and Reactivity

10.1 REACTIVITY

NO HAZARDOUS REACTIVITY UNDER NORMAL CONDITIONS OF USE.

10.2 CHEMICAL STABILITY	Stable under normal ambient temperature and storage conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	None under normal processing. Avoid contact with strong acids.
10.4 CONDITIONS TO AVOID	Extreme heat, freezing temperatures, and direct sunlight.
10.5 INCOMPATIBLE MATERIALS	Strong acids and strong oxidizing agents.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition may produce carbon monoxide and carbon dioxide.

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	Not Classified (Oral LD50 > 5,000 mg/kg)	Low acute oral toxicity. Ingestion may cause gastrointestinal discomfort.
ACUTE DERMAL TOXICITY	Not Classified (LD50 > 2,000 mg/kg)	Low dermal toxicity. Prolonged contact may cause mild skin irritation.
SKIN CORROSION / IRRITATION	Category 2 (Irritant)	Causes skin irritation upon prolonged or repeated contact.
SERIOUS EYE DAMAGE / IRRITATION	Category 2A (Irritant)	Causes serious eye irritation and stinging upon direct contact.
RESPIRATORY SENSITIZATION	Not Classified	No respiratory sensitization effects observed.
CARCINOGENICITY	Not Classified	No component is classified as a carcinogen by IARC, NTP, or OSHA.

SECTION 12: Ecological Information

12.1 ECOTOXICITY ASSESSMENT

Surfactant components are readily biodegradable. Avoid direct release of concentrated product into natural water systems.

12.2 PERSISTENCE AND DEGRADABILITY

Surfactants contained in this product comply with biodegradability criteria under environmental regulations.

12.3 BIOACCUMULATIVE POTENTIAL

Low potential for bioaccumulation due to aqueous solubility and rapid biodegradation.

12.4 MOBILITY IN SOIL

High mobility in soil due to complete water solubility.

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SECTION 13: Disposal Considerations

13.1 WASTE TREATMENT METHODS

Product Waste: Dispose of spent or diluted cleaning solution in accordance with local environmental regulations and municipal sewer discharge guidelines.

Contaminated Packaging: Rinse empty containers thoroughly with water before recycling or disposing of as standard packaging waste.

SECTION 14: Transport Information

Transport Regulatory Status: Not regulated as a hazardous material for transport across road, rail, sea, and air modalities.

TRANSPORT MODAL	UN NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PACKING GROUP
US DOT / ADR (LAND)	Not Regulated	Non-Hazardous Aqueous Cleaning Solution	Not Regulated	None
IMDG (SEA TRANSPORT)	Not Regulated	Non-Hazardous Aqueous Cleaning Solution	Not Regulated	None
IATA / ICAO (AIR)	Not Regulated	Non-Hazardous Aqueous Cleaning Solution	Not Regulated	None

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 and workplace safety guidelines.

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OSHA HAZARD COMMUNICATION

Classified as hazardous under 29 CFR 1910.1200 (Skin/Eye irritation).

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: 2 (Moderate)
Flammability: 0 (Non-flammable)
Instability: 0 (Minimal)
Special: None

HMIS Rating

Health: 2 (Moderate)
Flammability: 0 (Non-flammable)
Physical Hazard: 0 (Minimal)
Personal Protection: B (Goggles + Gloves)

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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VERSION	RELEASE DATE	PRIMARY CHANGE DESCRIPTION
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1.0	19 August 2026	Initial official issue of GHS Safety Data Sheet for Alkemist Ultrasonic Cleaner Solution manufactured by ALKEMIST Water and Chemicals Solutions (SMC-Private) Limited, Hafizabad.
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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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