



SAFETY DATA SHEET

ELECTROSOL CTC CONTACT CLEANER

Fast-Evaporating Electronic Contact Cleaner | GHS / OSHA Format

ELECTROSOL CTC

High-Purity Flammable Electronic Contact Cleaner & Degreaser

WARNING

Chemical basis: Formulated blend of high-purity volatile hydrocarbon and alcohol solvents engineered for rapid electronic cleaning and 100% residue-free evaporation.

Primary hazards: Highly flammable liquid and vapour; causes serious eye irritation; may cause drowsiness or dizziness.

Flammable & Technical Notice: This Safety Data Sheet provides comprehensive workplace hazard communication for ElectroSol CTC Contact Cleaner. Formulated to safely clean non-energized electronic systems with rapid, 100% residue-free evaporation. Keep away from heat, sparks, open flames, and hot surfaces. Ensure equipment is completely de-energized before application.

Document Control

SDS NO.

ALK-ES-CTC-001

VERSION

1.0

ISSUE DATE

October 2026

REVISION DATE

October 2026

APPLICATION

Electronic Contact Cleaner

Supplier / Manufacturer

Company:

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

Address:

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

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Table of Contents (16 GHS Sections)

ALKEMIST® | Industrial & Specialty Chemicals

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1. Identification
2. Hazard(s) 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

PRODUCT NAME / IDENTIFIER ELECTROSOL CTC CONTACT CLEANER

PRODUCT CODE / REF.	ALK-ELECTROSOL-CTC
CHEMICAL DESCRIPTION	Fast-evaporating flammable solvent blend designed for electronic contact cleaning and degreasing.
RECOMMENDED USES	Cleaning of non-energized electrical contacts, switches, relays, circuit boards, precision

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	electronic assemblies, and tuner controls.
USES ADVISED AGAINST	Spraying onto energized electrical equipment, consumer retail use without proper ventilation and PPE, direct consumption.
MANUFACTURER DETAILS	Alkemist Water and Chemicals Solutions (SMC-PRIVATE) LIMITED Office No. 32, Usman Plaza, Alipur Road, Hafizabad City, Pakistan
EMERGENCY CONTACT	WhatsApp Only: 0301 9220000 Email: admin@waterchemicalssolution.com

SECTION 2: Hazard(s) Identification

2.1 GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE

HAZARD CLASS	CATEGORY	HAZARD STATEMENT MAPPING
FLAMMABLE LIQUIDS	Category 2	Highly flammable liquid and vapour (H225).
SERIOUS EYE DAMAGE / IRRITATION	Category 2A	Causes serious eye irritation (H319).
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	Category 3	May cause drowsiness or dizziness (H336).

2.2 GHS LABEL ELEMENTS

Signal Word



Hazard Pictograms

Flame (GHS02) & Exclamation Mark (GHS07)

2.3 HAZARD STATEMENTS

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CODE	HAZARD STATEMENT TEXT
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

2.4 PRECAUTIONARY STATEMENTS

PREVENTION	P210: KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING. P233: KEEP CONTAINER TIGHTLY CLOSED. P240: GROUND AND BOND CONTAINER AND RECEIVING EQUIPMENT. P241: USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING EQUIPMENT. P242: USE NON-SPARKING TOOLS. P243: TAKE ACTION TO PREVENT STATIC DISCHARGES. P261: AVOID BREATHING MIST/VAPOURS/SPRAY. P264: WASH SKIN THOROUGHLY AFTER HANDLING. P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P280: WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
RESPONSE	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340+P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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 advice/attention. P370+P378: In case of fire: Use dry chemical, CO₂, or alcohol-resistant foam to extinguish.
STORAGE	P403+P233: Store in a well-ventilated place. Keep container tightly closed. P403+P235: Keep cool. P405: Store locked up.
DISPOSAL	P501: Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.

SECTION 3: Composition / Information on Ingredients

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CHEMICAL NAME / CATEGORIZED TECHNICAL NAME	CAS NUMBER	GHS CLASSIFICATION	CONCENTRATION (% W/W)
SOLVENT BLEND	Proprietary	Flam. Liq. 2 (H225) Eye Irrit. 2A (H319) STOT SE 3 (H336)	90.0 - 99.0 %
PROPRIETARY ELECTRONIC DEGREASING ADDITIVES	Proprietary Blend	Not Classified (Trace Additive)	1.0 - 10.0 %

SECTION 4: First-Aid Measures

ROUTE	IMMEDIATE ACTION REQUIRED	MEDICAL FOLLOW-UP
INHALATION	Move victim to fresh air immediately. Keep patient warm and at rest.	Seek medical attention if dizziness, headache, or respiratory irritation persists.
SKIN CONTACT	Wash affected skin thoroughly with soap and running water.	Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists.
EYE CONTACT	Immediately flush eyes with running water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do.	Consult an ophthalmologist if eye irritation continues.
INGESTION	Rinse mouth with water. Do NOT induce vomiting unless advised by medical personnel. Give 1-2 glasses of water.	Call a POISON CENTER or physician immediately for medical guidance.

SECTION 5: Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA	ALCOHOL-RESISTANT FOAM, DRY CHEMICAL POWDER, CARBON DIOXIDE (CO ₂), OR WATER SPRAY.
SPECIFIC HAZARDS	Highly flammable liquid and vapour. Vapours may form explosive mixtures with air and travel to distant ignition sources.

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PROTECTIVE EQUIPMENT

Wear self-contained breathing apparatus (SCBA) and full protective firefighting gear.

SECTION 6: Accidental Release Measures

PERSONAL PRECAUTIONS

ELIMINATE ALL IGNITION SOURCES. USE PERSONAL PROTECTIVE EQUIPMENT (ANTISTATIC CLOTHING, GLOVES, SAFETY GOGGLES). ENSURE ADEQUATE VENTILATION. ENSURE ELECTRONIC EQUIPMENT IS DE-ENERGIZED.

ENVIRONMENTAL PRECAUTIONS

Prevent uncontained product from entering storm drains, soil, or natural waterways.

CLEANUP & CONTAINMENT

Absorb spill with inert non-combustible material (sand, earth). Use non-sparking tools to collect into grounded waste containers for disposal.

SECTION 7: Handling and Storage

SAFE HANDLING

ENSURE EQUIPMENT IS COMPLETELY DE-ENERGIZED BEFORE CLEANING. GROUND AND BOND CONTAINERS DURING TRANSFER TO PREVENT STATIC DISCHARGE. USE EXPLOSION-PROOF EQUIPMENT. AVOID BREATHING VAPOURS. WASH THOROUGHLY AFTER HANDLING.

STORAGE CONDITIONS

Store in original containers in a cool, dry, well-ventilated flammable liquid storage area between 5°C and 30°C away from heat and strong oxidizers.

PACKAGING / DRUM SPEC

Supplied in aerosol cans, 1 L bottles, or 5L/20L industrial containers.

SECTION 8: Exposure Controls / Personal Protection

COMPONENT

OSHA PEL (TWA)

ACGIH TLV (TWA)

HIGH-PURITY VOLATILE SOLVENT BASE

400 ppm (980 mg/m³)

200 ppm (TWA) / 400 ppm (STEL)

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE / FACE PROTECTION

CHEMICAL SPLASH GOGGLES OR SAFETY GLASSES (ANSI Z87.1 / EN 166).

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HAND PROTECTION	Solvent-resistant gloves (Nitrile or Butyl rubber).
SKIN / BODY	Antistatic work clothing and closed-toe footwear.
RESPIRATORY PROTECTION	Use a respirator with organic vapour cartridges if ventilation is insufficient.

SECTION 9: Physical and Chemical Properties

PROPERTY	SPECIFICATION
APPEARANCE	Clear & Bright liquid
ODOUR	Characteristic solvent odour
EVAPORATION RATE	Rapid, 100% Residue-Free
DENSITY @ 20°C	0.780 - 0.810 g/cm³
FLASH POINT (CLOSED CUP)	Approx. 12°C (54°F)
SOLUBILITY IN WATER	Complete / Miscible

SECTION 10: Stability and Reactivity

CHEMICAL STABILITY	STABLE UNDER NORMAL AMBIENT TEMPERATURE AND STORAGE CONDITIONS.
INCOMPATIBLE MATERIALS	Strong oxidizing agents, strong acids, halogens.
HAZARDOUS REACTIONS	Vapours may form explosive mixtures with air. Exothermic reaction with strong oxidizers.

SECTION 11: Toxicological Information

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ENDPOINT

EVALUATION / RESULT

ACUTE ORAL TOXICITY	Oral LD50 (Rat): > 5,000 mg/kg
SKIN CORROSION / IRRITATION	Mild skin irritation upon prolonged contact.
SERIOUS EYE DAMAGE / IRRITATION	Causes serious eye irritation (Category 2A).
CARCINOGENICITY	Not classified as a carcinogen by IARC, NTP, or OSHA.

SECTION 12: Ecological Information

ECOTOXICITY

LOW ACUTE TOXICITY TO AQUATIC ORGANISMS.

PERSISTENCE & DEGRADABILITY	Readily biodegradable in aquatic environments.
BIOACCUMULATIVE POTENTIAL	Low potential for bioaccumulation.

SECTION 13: Disposal Considerations

Waste Treatment: Dispose of spent solvent or waste containers via an authorized hazardous waste management contractor in compliance with local regulations.

SECTION 14: Transport Information

TRANSPORT MODAL	UN NUMBER	PROPER SHIPPING NAME	CLASS	PACKING GROUP
US DOT / ADR / IMDG / IATA	UN 1219	(FLAMMABLE LIQUID)	Class 3	Packing Group II

SECTION 15: Regulatory Information

NATIONAL REGULATIONS

COMPLIES WITH LOCAL INDUSTRIAL CHEMICAL HANDLING, STORAGE, AND

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SAFETY GUIDELINES IN PAKISTAN.

OSHA HAZARD COMMUNICATION

Classified as hazardous under 29 CFR 1910.1200 (Flammable liquid, Eye irritation, STOT SE).

SECTION 16: Other Information

16.1 HAZARD RATING SYSTEMS (NFPA 704 & HMIS)

NFPA 704 Rating

Health: 1 (Slight)

Flammability: 3 (Serious / Flammable)

Instability: 0 (Minimal)

Special: None

HMIS Rating

Health: 1 (Slight)

Flammability: 3 (Serious)

Physical Hazard: 0 (Minimal)

Personal Protection: H (Goggles + Gloves + Apron + Vapor Respirator)

16.2 DOCUMENT METADATA

VERSION	RELEASE DATE	DESCRIPTION
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1.0	October 2026	Initial official release of GHS Safety Data Sheet for ElectroSol CTC Contact Cleaner manufactured by Alkemist Water and Chemicals Solutions (SMC-PRIVATE) LIMITED, Hafizabad.
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16.3 DISCLAIMER

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.

*** END OF SAFETY DATA SHEET - ELECTROSOL CTC CONTACT CLEANER ***

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