

Technical Data Sheet

Chemtools® Pty Ltd | Ph: 1300 738 250 (+61 2 9833 9866) | Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760
Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Kleanium™ Electronic Cleaning Solvent

PART NUMBER	AVAILABLE SIZE*
CT-ECS-175	175g Aerosol
CT-ECS-230	230g Aerosol
CT-ECS-5L	5 Litres
CT-ECS-20L	20 Litres

*Available colours and/or sizes may change without notice.

DESCRIPTION

Kleanium™ Electronic Cleaning Solvent is a quick drying pure and stable precision cleaner used to dissolve and flush away electrically detrimental or performance hindering contaminants, to ensure the long-term reliability of electronic equipment.

ECS is non-conductive and safe for use on mechanical assemblies and sensitive electronics such as relays, switches, alarms, contacts, generators, terminal plugs, circuit breakers, and more. It rapidly removes fluxes, wax, grease, and oil, leaving no residue on compatible surfaces, including metal alloys, most plastics, elastomers, and rubbers.

FEATURES & BENEFITS

Specialised Precision Solvent

Formulated with a high purity level to target and dissolve specific electronic contaminants

Rapid Evaporation Rate

Flashes off the surface quickly after application

Leaves Zero Residue

Completely evaporates, leaving no film or trace material behind

High Dielectric Strength

Non-conductive and non-corrosive to prevent shorts

Material Compatibility

Safe for use on most plastics, component markings, and metal alloys used in electronics

Maximum PCB Reliability

Effectively removes corrosive solder flux residues that cause long-term electrical failure and dendritic growth

Optimal Performance

Eliminates conductive paths, oils, and grime that interfere with signal integrity and can cause current leakage

Prevents Rework and Downtime

Fast-drying, residue-free nature allows electronics to be inspected, tested, and returned to service quickly

Protects Delicate Components

Cleans thoroughly without damaging sensitive component plastics, rubber seals, or stencilled labels

Prepares Surfaces for Adhesion

Leaves a truly clean surface, which is critical for the proper bonding and effectiveness of subsequent conformal coatings or potting compounds

COMMON APPLICATIONS

Printed Circuit Board Cleaning:

- Removes post-soldering flux residue (rosin, no-clean, or water-soluble) to ensure board reliability.
- Flushes manufacturing residues, such as solder paste, marking inks, and temporary adhesives.
- Cleans fingerprint oils, dust, and grime from the PCB surface to prevent current leakage and prepare for conformal coatings.

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Cleaning Electrical Contacts & Connectors:

- Flushes out oxidation, dirt, and oil from plugs, sockets, relays, and terminal blocks to restore conductivity and reduce intermittent signals.
- Cleans high-friction electrical contacts, such as those found in switches, potentiometers, and variable resistors, often restoring smooth operation.

Cleaning Electromechanical Devices:

- Degreases and cleans the internal components of relays, solenoids, and circuit breakers where dust and oil can cause sticking or failure.
- Washes contamination out of delicate mechanisms in motors, meters, and sensors without leaving behind residue.

Cleaning Magnetic Heads and Media:

- Cleans tape heads and disk drive heads (in non-sealed environments) to maintain data read/write integrity.

Optical Surface Preparation:

- Cleans fibreoptic connectors and lenses (where compatible) prior to splicing or assembly to ensure maximum light transmission.

Maintenance and Repair:

- Cleans equipment during general service to remove accumulated dust, oils, and environmental contaminants from chassis and external casings before disassembly.
- Washes away residues from battery acid leaks or water damage to stop further corrosive activity on traces and components.
- Pre-cleans surfaces before the application of lubricants, adhesives, or protective coatings.

APPLICATION

Pre-cleaning: Turn off the device or disconnect from power supply and remove all batteries. Wait a few minutes for any stored energy to drain and allow hot components to cool. Remove larger loose contaminants from the surface where possible using a can of compressed air or a soft brush to dislodge debris. Electronic Cleaning Solvent will assist with dislodging any smaller foreign elements.

Application: The method of application will vary depending on the area being cleaned. If applying to moving components, cycle switches and flip or slide any mechanisms or contacts to work the solvent into the area and dislodge contaminants.

Spray and Sweep (Aerosol)

Shake can well. Spray from a distance of 15 – 20cm directly over the target area using a sweeping motion. Tilt the surface slightly while applying to allow dissolved contaminants and excess liquid to drain away.

Tilt to Drain

Apply by brush, foam swab, or lint free wipe. Hold the component or board at an angle to allow dissolved contaminants to run off and drain away. Gently scrub the area while still wet to remove baked-on grime and heavy contaminants.

Allow to dry completely and visually inspect the target area before restoring power. If contaminant residues remain, repeat the application process for a thorough clean.

For optimum performance or regular maintenance of mechanical parts, repeat daily or weekly.

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TECHNICAL DATA

Appearance:	Colourless liquid	Odour:	Low, mild solvent
Specific Gravity @ 20°C:	0.66	Volatiles:	100%
Flash Point:	-17°C	Boiling Point:	60°C – 63°C
Aerosol Propellant:	Carbon dioxide		

SHELF LIFE (UNOPENED)

Approx. 24 months from date of manufacture.

Note: This product may not perform to given specifications once shelf life has been exceeded.

FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and keep in a cool, dry, ventilated environment. Avoid humid conditions.

DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.