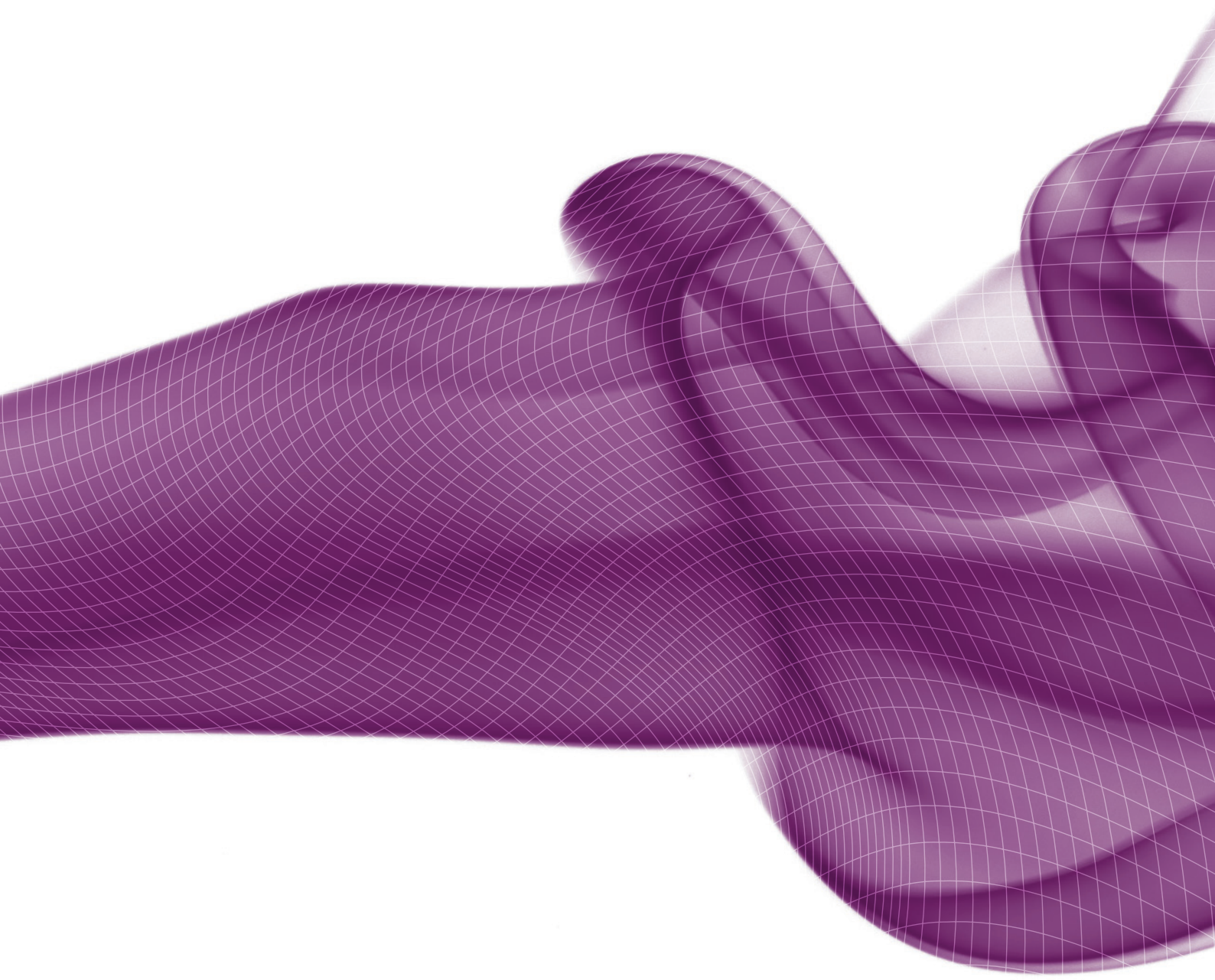


# Maintenance and Service Aids

A total solution for maintenance, repair and overhaul



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**ELECTROLUBE**

THE SOLUTIONS PEOPLE

# Maintenance and Service Aids



- Syringes, pump sprays, tubes, aerosols, wipes, pens
- Airduster and freezer sprays
- Cleaners and wipes
- Greases and oils
- Encapsulation resins and conformal coatings
- Maintenance, test, repair and small scale production
- Paints and galvanising sprays

**Electrolube manufactures a wide range of maintenance products to complement the major product groups. Whether used by OEMs or subcontractors, these products are supplied in convenient packaging, covering a wide range of applications and requirements.**

Specific products in this range include:

- Airdusters – For the removal of dust and dirt from hard to reach places, for example, in photographic and electrical equipment. They can also be used to blast off water or solvents for rapid drying.
- Freezer Sprays – For the identification of faulty components by rapidly cooling components to  $-55^{\circ}\text{C}$ . Freezers are available in standard or minimal charging forms, enabling safe use on static sensitive components.
- General Maintenance – Including hard surface cleaners, cyanoacrylate adhesives, tamper evident seals and contact cleaner lubricants.
- Industrial Maintenance – Including high quality paints, galvanising sprays, polyurethane foam, lubricants and graffiti removers.

Electrolube can provide a total solution for mobile mechanics and service engineers through the wide range available. Products are supplied in a range of packaging dependent upon their application and end use. These include aerosols, pump sprays, syringes, tubes, pens, sachets and small tins.

# The Product Range

## Lubricants & Greases



### ACL – Adhesive Chain Lubricant

- Highly tenacious
- Excellent resistance to water and high temperatures
- Good mechanical stability
- Good penetration at low temperatures



### DAS – Silicone Mould Release

- Colourless silicone lubricant
- Ideal for all mould release applications
- Very good thermal stability
- Reduces surface friction



### AGC – Copper Anti-Seize Fluid

- Provides anti-seize and anti-corrosion protection
- Ideal for use on threaded components
- Excellent water resistance
- Effective at high temperatures



### DDF – Leak Detector

- Allows immediate detection of air and gas leaks from all types of pipework
- Non-flammable and safe to use
- Water-based
- Contains anti-corrosion additives



### CCS – Contact Cleaning Strips

- Specialist cleaning cards impregnated with contact lubricant
- Increases reliability of contacts by reducing contact resistance
- Reduces mechanical wear and contact erosion
- Increases the life of contacts



### DGT – Penetrating Fluid

- Penetrates and lubricates mechanical parts
- Produces a highly water resistant film, providing long term corrosion protection
- Loosens seized assemblies and prevents friction noise
- Ideal for breakdown and maintenance services



### CMO – Clear Mechanical Oil

- Clear lubricant with excellent mechanical properties
- Outstanding performance in extreme conditions
- Highly resistant to water
- Contains Molybdenum Disulphide



### DFL – Dry Film Lubricant

- High purity PTFE based lubricant
- Water repellent with a low co-efficient of friction
- May be used where silicones or mineral oils are unsuitable
- Can be used as a cold mould release



#### EPE – Permagard

- De-watering and penetrating fluid
- Excellent lubricating properties
- Dries out damp electrical connections
- Protects against rust and corrosion



#### HTG – High Temperature Grease

- High quality mechanical grease for lubrication and protection
- Wide temperature range
- Fortified with anti-wear and anti-oxidant additives
- Water resistant



#### FFL – Fuser Film Lubricant

- Provides high quality mechanical lubrication
- Designed for use on fuser films in toner cartridges
- Excellent thermal resistance
- Excellent plastics compatibility



#### HVG – High Voltage Grease

- Developed for use on high voltage/high current contacts
- Dramatically reduces wear and arcing
- Low oil bleed even at elevated temperatures
- Good low temperature performance



#### FSL – Food Safe Lubricant

- USDA H-1 food contact approval
- Incidental or indirect food contact environments
- Resistant to detergents
- Excellent materials compatibility



#### MPG – Multi-purpose Grease

- General purpose grease
- Wide temperature range
- Safe on most thermoplastics
- Good lubricating and thermal properties



#### HCG – Highly Conductive Grease

- Designed for use under pressure
- High thermal conductivity
- Excellent performance at high temperatures
- Excellent adhesion characteristics



#### OSL – Silicone Oil

- High quality, multi purpose mechanical lubricant
- Silicone spray with excellent water repellency
- Long term lubrication for line printers, keyboards, platens, bearings, etc.
- May also be used as a mould release agent



#### SCO – Silicone Grease Compound

- High quality, multi-purpose electrical insulating compound
- Excellent water and moisture repellency
- Chemically inert, odourless and non-toxic
- Excellent resistance to tracking and corona discharge



#### ULL – Ultralube

- High performance dry lubricant
- Ideal for regular maintenance jobs
- Extremely long life with excellent wear characteristics
- Wide operating temperature range



#### SPG – Special Plastics Grease

- Excellent plastics compatibility
- Offers outstanding low temperature performance
- Efficient mechanical lubricant for plastic/plastic or plastic/metal friction
- Ideal to reduce wear in timers, plastic cogs and gears etc.

## Airduster Sprays



### ADZ – Air Duster Zero™

- Active carbon air duster for safe removal of dust and contamination from electrical and electronic equipment
- ZERO Contribution to the world's rising CO<sub>2</sub> levels
- ZERO Flammability
- ZERO Odour
- ZERO limitation of spray angle
- ZERO Toxicity



### GDP – High Powered Airduster

- High powered, HFC Free inert pure compressed gas airduster
- Powerful initial blast and minimal drop off
- Use to remove dust and dirt from delicate and inaccessible areas
- Non-flammable



### EAD/EADI – Airduster

- Inert, HFC Free pure compressed gas for dust removal
- Available in standard (EAD) and invertible versions (EADI)
- Ideal for removing particulates from inaccessible areas on delicate equipment
- Non-flammable



### EADI250D – Invertible Flammable Airduster

- Pure compressed gas airduster
- Invertible - can be used at any angle
- Use to remove dust and dirt from delicate and inaccessible areas
- Flammable - not for use on live equipment



### EADP/EADPI – Airduster Plus

- Ultra high power, inert, HFC Free pure compressed gas airduster
- Available in standard (EADP) and invertible versions (EADPI)
- High pressure blast for removing stubborn particulates
- Non-flammable

## Freezer Sprays



### FRE – Freezer

- Standard freezer for non-sensitive, electronic fault finding
- Can aid mechanical shrink fitting
- Non-flammable, cools down to  $-55^{\circ}\text{C}$
- Prevents damage to components from overheating during soldering



### MCF – Minimal Charging Freezer

- Freezer spray for static sensitive devices
- Unique additive minimises static build up whilst still allowing frost formation
- Fast fault finding in electronics
- Non-flammable, cools down to  $-55^{\circ}\text{C}$

## General Purpose Cleaners



### ARW – Aerowipes

- Efficient removal of uncured and semi-cured adhesives and sealants
- Designed for the aerospace and automotive industries
- Available in liquid form and impregnated lint-free wipes
- Non-flammable



### EWI – IPA Electrowipes

- Impregnated with an isopropanol and de-ionised water blend
- High quality cloths
- Packaged in individual sachets
- Excellent degreaser, also removes flux residues and metal oxide



### CTC – Carterclene

- Heavy duty, anti-static foaming cleaner
- Removes ingrained dirt and grime
- Provides long lasting anti-static properties
- Apply and wipe with Anti-Static Cloths (AAC)



### GLC – Glass Cleaner

- Low-foaming glass cleaner
- Water-based
- Removes grease, oil and light organic contaminants
- Non-flammable



### ECW – Engineering Cleaning Wipes

- Non-woven, cellulose/polyester blend
- High quality, general purpose wipes
- Extremely absorbent
- Exceptional tear and wet strength



### IPA – Electronic Cleaning Solvent

- Efficient general purpose electronic cleaning solvent
- Removes contamination from PCBs
- Excellent plastics compatibility
- Economic in use





#### ROC – Reflow Oven Cleaner

- Specially formulated micro-emulsion for cleaning reflow ovens
- Removes all types of flux residues
- Contains corrosion inhibitors
- Non-flammable



#### ULS – Ultrasolve

- Excellent degreasing properties
- Also removes flux residues from PCBs
- Can be used to remove acrylic conformal coatings
- Harmless to most plastics, rubbers and elastomers



#### SRI – Saferinse

- Aqueous, de-ionised solvent blend
- For rinsing electronic assemblies after cleaning with Safewash
- Recommended as a final rinse to ensure removal of all impurities
- Non-flammable



#### SWA – Safewash Aerosol

- Water-based cleaning solvent
- Removes all types of flux residues
- Aerosol form with brush attachment to aid cleaning
- Non-flammable

# Encapsulation Resins and Conformal Coatings



## ER2188 – Epoxy Resin

- General purpose epoxy resin
- UL94 V-0 approved
- Excellent adhesion to a wide variety of substrates
- Good chemical and water resistance



## APL – Acrylic Protective Lacquer

- Flexible, fast drying transparent acrylic conformal coating
- Excellent clarity, ideal for LED applications
- Offers excellent adhesion to all substrates
- Good temperature range and dielectric properties
- May be soldered through and contains a UV trace to aid inspection
- May be removed with solvents such as Ultrasolve (ULS)



## GLR – Glob Top Resin

- One-part epoxy resin
- Thixotropic for localised protection of electrical components
- Fast cure at elevated temperatures
- Excellent electrical properties



## CCRG – Conformal Coating Removal Gel

- Thixotropic gel formulated to remove Electrolube's solvent resistant coatings
- Allows localised removal of components
- DCA, DCB, DCR, DCRT, DCE, WBP/S, PUCAF and PUC can be removed
- Does not contain methylene chloride



## UR5604 – Polyurethane Resin

- General purpose polyurethane resin
- UL94 V-0 approved
- Good flexibility even at low temperatures
- Low mixed system viscosity



## RRS – Resin Remover Solvent

- Designed to swell and soften cured coatings and resins
- May be used for reworking electronic devices
- Also suitable for use on production equipment, jigs, tools, etc.
- Does not contain methylene chloride

# Anti-Static Products



## AAC – Anti-Static Wipes

- 100% Pure cotton wipes
- Lint-free and non-abrasive
- Suitable for use with ElectroLube anti-static products
- Ideal for use on delicate equipment



## ASC – Anti-Static Glass Cleaner

- Anti-static cleaner for glass, anti-glare filters and monitors
- Reduces dust build up
- Safe to use on most coated glass
- Non-flammable



## AFC – Anti-Static Foam Cleaner

- Protects against static build-up
- Safe on all plastics
- Non-flammable
- Apply and wipe with Anti-Static Cloths (AAC)



## CTC – Carterclene

- Heavy duty, anti-static foaming cleaner
- Removes ingrained dirt and grime
- Provides long lasting anti-static properties
- Apply and wipe with Anti-Static Cloths (AAC)



## ASA – Anti-Static Spray

- Powerful non-foaming cleaner
- Prevents static build-up
- Non-flammable
- Suitable for a wide variety of surfaces



## MCF – Minimal Charging Freezer

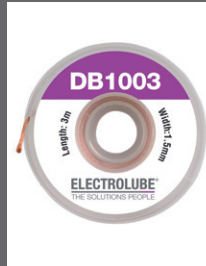
- Freezer spray for static sensitive devices
- Unique additive minimises static build up whilst still allowing frost formation
- Fast fault finding in electronics
- Non-flammable, cools down to -55°C

## Prototype and Repair



### SMA – Surface Mount Adhesive

- One-part adhesive with excellent mechanical strength
- Resistant to cleaning solvents
- Long term stability after cure cycle
- Syringe can be used by hand or dispensing equipment



### DB1003/DB2003 – Desolder Braid

- Fast, effective wicking when removing components
- Utilises no-clean flux
- Economic 3m length
- Available in two widths – 1.5mm (DB1003) and 2.00mm (DB2003)



### SMF/SMFL – Surface Mount Rework Flux

- Quick drying, mildly activated (RMA type) no-clean flux
- For use with hot air, hot gas or conventional soldering techniques
- Zero halide content so no cleaning is required
- Supplied in pen (SMF) and aerosol (SMFL) form

## Paints and Paint Removers



### GRG – Graffiti Remover Gel

- High viscosity gelled product – clings to vertical surfaces
- Low odour, low volatility – longer contact time
- Removes graffiti from porous and non-porous surfaces e.g. wood, brick, vinyl
- Harmless to most plastics and metals



### PGB/PGM – Galvanising Spray

- Cold galvanisation paint for metal surfaces
- Protects against oxidation and corrosion
- Very fast drying with excellent adhesion properties
- Available in gloss (PGB) and matt finishes (PGM)



### GRS – Graffiti Remover for Sensitive Surfaces

- Removes graffiti from porous and semi-porous surfaces, e.g. vinyl and laminates
- Pleasant light odour
- Contains non-chlorinated solvents
- Compatible with most plastics and metals



### PNM/PAM – High Temperature Paints

- Heat resistant paints suitable for objects exposed to temperatures up to 650°C
- Excellent coverage and flow characteristics
- Good adhesion and anti-corrosion properties
- Available in matt black (PNM) and aluminium grey (PAM)



### NSCP – Nickel Screening Compound PLUS

- Efficient EMI/RFI screening coating
- Enhanced adhesion to wide variety of substrates
- Fast drying at room temperature
- Also available in bulk



### PWB/PVB/PBB/PJB/PRB/PNB – High Gloss Paints

- Quick drying, high quality, universal spray paints
- Suitable for use in manufacturing, repair, workshop and home
- Excellent coverage and flow
- Colours: White, Blue, Yellow, Black, Red, Green



### SCP – Silver Conductive Paint

- Highly conductive silver loaded paint
- Ideal for track repair and pinpoint shielding
- Fast drying
- Excellent adhesion to most substrates

## General Maintenance



### BLV/R – Bloc'lube

- Tamper evident seal
- Green (BLV) or red (BLR) colour available
- Supplied with integral brush for easy application
- BLR available in a syringe



### HDC – Cutting Fluid

- Industrial grade metal cutting oil
- Powerful lubricant suitable for ferrous metals, stainless and heat resistant steels
- Allows high speed punching
- Extends tool life



### CPL – Clear Protective Lacquer

- General purpose coating for PCBs giving high quality glossy finish
- Ideal for protecting ferrous metals from corrosion
- Good resistance to humidity
- Available in pen form for easy and direct application



### ICEE – De-icer

- Provides rapid ice and frost removal
- Water soluble blend of alcohols and glycols
- Effective at low temperatures (-11°C)
- High powered spray designed to cover large areas



### CYL – Cyanolube

- Fast curing cyanoacrylate adhesive
- High bond strength
- Bonds most common substrates
- Adheres well to most plastics



### LRM – Label Remover

- Paper label remover
- Aerosol with brush enables mechanical scrubbing action to aid removal
- Handy pen version available
- Harmless to most plastics



### DEI – Demineralised Water

- Provides a final rinse to circuit boards and assemblies
- For use after a tap water rinse
- Ideal for use with the Safewash range of cleaners
- Suitable for trigger spray bottle (TSB000)



### MPU – Polyurethane Foam

- One-part ready to use self-expanding PU foam
- Cures quickly to form a tough, waterproof layer
- Excellent for filling and sealing spaces around cables, window frames, etc.
- Provides good thermal and acoustic insulation



#### RCS – Rapid Cure Sealant

- Single component, low odour RTV
- Ideal for a wide variety of bonding and sealing applications
- High bond strength; excellent adhesion to a wide variety of substrates
- Exhibits rapid tack free times



#### SGL – Silica Gel

- Ideal for protecting assemblies from moisture ingress
- Non-indicating
- Inert to most non-aqueous chemicals
- Available in 10g, 50g and 100g sachets



#### PBS – Antispatter Spray

- Prevents adhesion of weld spatter
- Suitable for protecting nozzles, weld units and tools
- Non-flammable and silicone free
- Very fast drying



#### TSB – Trigger Spray Bottle

- Re-usable bottle for spraying various solutions
- Volumetric graduation marks on the side of bottle
- Holds up to 600ml
- Controlled usage with adjustable spray



#### RRR – Rubber Roller Restorer

- Restores textures to rubber rollers in office equipment
- Prolongs the lifetime of rubber rollers, preventing costly replacement
- Supplied in pump spray
- Leaves no residue



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