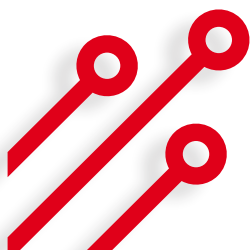




Discover Perfectly Clean



**ASIA**

# Electronics Assembly

*Products for Faster, Safer and  
More Consistent Cleaning*



## WE MAKE CRITICAL CLEANING EASIER!

MicroCare is the industry leader with more than 35 years of experience in fast, efficient, safe and cost-effective cleaning of electronic components and PCBs (printed circuit boards). Our quality, innovation and service has earned the trust of companies around the globe. Find more details on the following pages or visit: [MicroCareElectronics.com](http://MicroCareElectronics.com)

# MicroCare™



## Discover Perfectly Clean

### MicroCare for Electronics Assembly:

- ▶ Reduce manufacturing costs
- ▶ Improve safety and compliance
- ▶ Maximise production efficiencies
- ▶ Minimise defects and waste



Trust the reliable MicroCare Critical Cleaning Lab chemists and field engineers. Through on-site consultation and in-lab cleaning trials, we help you choose the best cleaning fluid for perfectly cleaned parts.

For more information and to download SDS or technical data sheets, visit our website [MicroCare.com](http://MicroCare.com)



MicroCare, ExPoxy, IsoClean, MicroWipe, MultiClean, OPTIXX, PowerClean, ProClean, ScreenClean, ShockShield, SpecClean, StatZAP, SuprClean, TidyPen, TriggerGrip, UltraClean, VeriClean, CleanWipes, the MicroCare logo, the Optixx logo and the TidyPen logo are trademarks or registered trademarks of MicroCare Corp.

## TABLE OF CONTENTS

|  |       |
|--|-------|
| PCB Cleaner Selection Guide                    | 3     |
| Flux Removers                                  | 4-9   |
| TriggerGrip™ Cleaning System                   | 10-11 |
| Presaturated Wipes & Refills                   | 12-13 |
| Contact Cleaner & Circuit Chillers             | 14    |
| Dust Removers                                  | 15    |
| Lint-Free Wipes & Stencil / Equipment Cleaning | 16    |
| Maintenance Cleaners                           | 17-18 |
| Vapour Degreasing for Batch Cleaning           | 19    |





Compare our electronics cleaners on two important characteristics: **SAFETY & CLEANING STRENGTH**

## NONFLAMMABLE Flux Removers

► FOR BETTER SAFETY



| FLUX REMOVER  | Best On                          | Cleaning Strength (Kb) | Plastic Safe | TriggerGrip™ Compatible | Odour  | Drying Speed | VOC Content |
|---|----------------------------------|------------------------|--------------|-------------------------|--------|--------------|-------------|
| <b>General Purpose Flux Remover C</b><br><i>MCC-FRC (pg. 5)</i> | No Clean / Rosin / Water Soluble | 25 (Medium)            | Test         | ✓                       | Low    | Fast         | 590gm/L     |
| <b>Universal</b><br><i>MCC-UFR10A (pg. 6)</i>                   | Rosin                            | 34 (Medium)            | Test         | ✓                       | Slight | Fast         | 59gm/L      |
| <b>SuprClean™ Heavy Duty</b><br><i>MCC-SPR (pg. 8)</i>          | Rosin                            | 110 (Very Strong)      | Not Likely   | ✓                       | Low    | Fast         | 1,080gm/L   |
| <b>PowerClean™ Lead-Free</b><br><i>MCC-PW210A (pg. 8)</i>       | Lead-Free                        | 115 (Very Strong)      | Not Likely   | ✓                       | Low    | Fast         | 747gm/L     |

## FLAMMABLE Flux Removers

► FOR LOWER COST



| FLUX REMOVER  | Best On                          | Cleaning Strength (Kb) | Plastic Safe | TriggerGrip™ Compatible | Odour   | Drying Speed | VOC Content |
|---|----------------------------------|------------------------|--------------|-------------------------|---------|--------------|-------------|
| <b>VeriClean™ No Clean</b><br><i>MCC-DC1 (pg. 5)</i>        | No Clean                         | 18 (Mild)              | Yes          | ✓                       | Slight  | Fast         | 87gm/L      |
| <b>ProClean™ Alcohol-Enhanced</b><br><i>MCC-PRO (pg. 6)</i> | No Clean / Rosin / Water Soluble | 45 (Medium)            | Yes          | ✓                       | Alcohol | Slow         | 785gm/L     |
| <b>UltraClean™ VOC-Free</b><br><i>MCC-VOC10A (pg. 7)</i>    | No Clean / Lead Free             | 56 (Strong)            | Test         | ✓                       | Low     | Medium       | 0gm/L       |
| <b>Slow Drying Citrus-Based</b><br><i>MCC-EC7M (pg. 9)</i>  | No Clean / Rosin / Water Soluble | 67 (Strong)            | Not Likely   | ✓                       | Citrus  | Slow         | 840gm/L     |
| <b>Polar</b><br><i>MCC-PFR10A (pg. 7)</i>                   | No Clean / Rosin                 | 72 (Strong)            | Test         | ✓                       | Acetone | Slow         | 184gm/L     |





## FLUX REMOVERS

### CLEANING PRINTED CIRCUIT BOARDS AT THE LOWEST POSSIBLE COST IS EASIER THAN EVER.

PCBs need to be clean to perform as expected. *MicroCare* has both the products and the know-how to get your circuit boards perfectly clean in a fast, consistent, safe and cost-effective way.

ALL Flux Removers are *TriggerGrip* compatible.





## No-Clean Flux Remover - VeriClean™

### THE ECONOMICAL CHOICE FOR NO-CLEAN FLUXES AND PASTES

- ▶ Also removes hard-to-clean silicones (oils, coatings, greases, adhesives)
- ▶ Excellent toxicity rating makes it safe for workers
- ▶ Mild strength, fast drying, low odour
- ▶ TriggerGrip™ cleaning system compatible

#### Technical Details

Chemical Family: Methyl Siloxanes | Cleaning Strength (Kb): 18 (Est.)  
 Flammable | Evaporation: Fast | VOC Content (gm/L): 87  
 RoHS/WEEE/REACH/EPA SNAP Compliant | NSN: 6850-01-447-4799

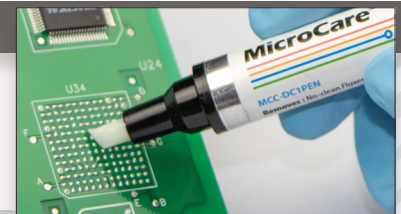
| PRODUCT                            | PART NUMBER | PACK TYPE | PACK SIZE |
|------------------------------------|-------------|-----------|-----------|
| No-Clean Flux Remover VeriClean™   | MCC-DC1     | Aerosol   | 284gm     |
| No Clean Flux Remover Cleaning Pen | MCC-DC1PEN  | 1 Pen     | 10mL      |



### No-Clean Flux Remover Pen



*Cleaning pen delivers quick, controlled, spot-on cleaning*  
 (see pg. 9)  
 Part Number: MCC-DC1PEN



## General Purpose Flux Remover - Flux Remover C

### SUPERIOR RESULTS ON NO-CLEAN AND ROSIN FLUXES

- ▶ Recommended as a general-purpose PCB cleaner
- ▶ Nonflammable for better safety
- ▶ Medium strength, fast-drying, low odour
- ▶ TriggerGrip™ cleaning system compatible

#### Technical Details

Chemical Family: HFC Blend | Cleaning Strength (Kb): 25 | Nonflammable  
 Evaporation: Fast | VOC Content (gm/L): 590 | RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT                        | PART NUMBER | PACK TYPE | PACK SIZE |
|--------------------------------|-------------|-----------|-----------|
| General Purpose Flux Remover C | MCC-FRC     | Aerosol   | 300gm     |



## Alcohol-Enhanced Flux Remover - ProClean™

**IDEAL FOR R, RA, RMA, OA AND SA FLUXES AND PASTES**

- ▶ A blend of alcohols delivers better cleaning than straight isopropyl alcohol
- ▶ Use on solder pastes, fluxes and fresh chip bonder
- ▶ Economical choice
- ▶ Medium strength, slow-drying, alcohol odour
- ▶ TriggerGrip™ cleaning system compatible

### Technical Details

Chemical Family: Alcohol | Cleaning Strength (Kb): 45 (Est.)  
 Flammable | Evaporation: Slow | VOC Content (gm/L): 785  
 RoHS/WEEE/REACH/EPA SNAP Compliant | NSN: 6850-01-361-0867

Also available in:  
**Presaturated Wipes**  
 Strong & Lint-Free  
 PN# MCC-PROW  
 Page 13

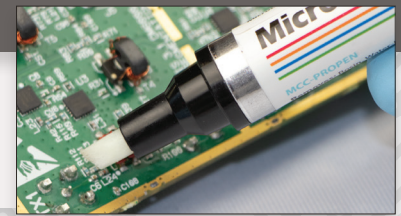


| PRODUCT                                   | PART NUMBER | PACK TYPE | PACK SIZE |
|---|-------------|-----------|-----------|
| Alcohol-Enhanced Flux Remover - ProClean™ | MCC-PRO     | Aerosol   | 340gm     |
| Water Soluble Flux Remover Cleaning Pen   | MCC-PROPEN  | 1 Pen     | 10mL      |

## Water Soluble Flux Remover Pen



*Cleaning pen delivers quick, controlled, spot-on cleaning*  
 (see pg. 9)  
 Part Number: MCC-PROPEN



## Universal Flux Remover

**EXCELLENT FOR NO-CLEAN AND ROSIN FLUX RESIDUE**

- ▶ Also removes oils, grease, fingerprints and silicone
- ▶ Nonflammable for better safety
- ▶ Low VOCs, low global warming
- ▶ Medium strength, fast drying, no odour
- ▶ TriggerGrip™ cleaning system compatible

### Technical Details

Chemical Family: HFO Azeotrope | Cleaning Strength (Kb): 34 | Nonflammable  
 Evaporation: Fast | VOC Content (gm/L): 59 | RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT                | PART NUMBER | PACK TYPE | PACK SIZE |
|------------------------|-------------|-----------|-----------|
| Universal Flux Remover | MCC-UFR10A  | Aerosol   | 300gm     |





## VOC-Free Flux Remover - UltraClean™

### HIGHLY-EFFECTIVE ON NO-CLEAN AND ROSIN FLUXES

- ▶ Also removes hard-to-clean silicones (oils, coatings, greases, adhesives)
- ▶ No chlorine, no halogens, no VOCs, and a very low GWP
- ▶ Economical choice
- ▶ Strong cleaning, medium drying, low odour
- ▶ Offers current and long-term regulatory compliance
- ▶ TriggerGrip™ cleaning system compatible

#### Technical Details

Chemical Family: Siloxanes | Cleaning Strength (Kb): 56 | Flammable  
Evaporation: Medium | VOC Content (gm/L): 0 | RoHS/WEEE/REACH/EPA SNAP Compliant

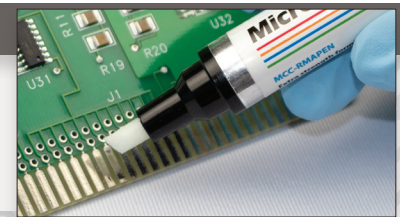
| PRODUCT                           | PART NUMBER | PACK TYPE | PACK SIZE |
|-----------------------------------|-------------|-----------|-----------|
| VOC-Free Flux Remover UltraClean™ | MCC-VOC10A  | Aerosol   | 284gm     |



## RMA Flux Remover Pen



*Cleaning pen delivers quick, controlled, spot-on cleaning*  
(see pg. 9)  
Part Number: MCC-RMAPEN



## Polar Flux Remover

### VERY GOOD CLEANER FOR REMOVING HEAVY OR AGE-HARDENED ROSIN, RA AND RMA FLUXES

- ▶ Good on polar and ionic activators in rosin, RA and RMA fluxes
- ▶ Best choice for PCB rework and repair, and post-flow assembly
- ▶ Longer drying time allows you to work bigger surface areas with less fluid
- ▶ Economical choice
- ▶ Strong cleaning, slow-drying, acetone odour
- ▶ TriggerGrip™ cleaning system compatible

#### Technical Details

Chemical Family: Organic Solvents | Cleaning Strength (Kb): 72 | Flammable  
Evaporation: Slow | VOC Content (gm/L): 184 | RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT            | PART NUMBER | PACK TYPE | PACK SIZE |
|--------------------|-------------|-----------|-----------|
| Polar Flux Remover | MCC-PFR10A  | Aerosol   | 300gm     |
|                    | MCC-RMAPEN  | 1 Pen     | 10mL      |



## Heavy Duty Flux Remover - SuprClean™

### REMOVES BAKED-ON FLUXES, PASTES AND ELECTRONIC GREASES

- Recommended for cleaning high-temp rosin, RA and RMA fluxes and acrylic conformal coatings
- Nonflammable for added safety
- Great choice for mil-spec PCBs, cables and connector cleaning
- Very strong cleaning, fast drying, low odour
- TriggerGrip™ cleaning system compatible

#### Technical Details

Chemical Family: HFC Blend | Cleaning Strength (Kb): 110  
Nonflammable | Evaporation: Fast | VOC Content (gm/L): 1080  
RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT                            | PART NUMBER | PACK TYPE | PACK SIZE |
|------------------------------------|-------------|-----------|-----------|
| Heavy Duty Flux Remover SuprClean™ | MCC-SPR     | Aerosol   | 340gm     |



## Lead-Free Flux Remover - PowerClean™

### IDEAL FOR CLEANING LEAD-FREE FLUXES, PASTES, OILS AND INKS

- Removes white residue commonly found with lead-free fluxes
- Nonflammable for added safety
- Very strong cleaning, fast drying, low odour
- TriggerGrip™ cleaning system compatible

#### Technical Details

Chemical Family: HFC Blend | Cleaning Strength (Kb): 115 | Nonflammable | Evaporation: Fast  
VOC Content (gm/L): 747 | RoHS/WEEE/REACH/EPA SNAP Compliant | NSN: 6850-01-361-0867

| PRODUCT                            | PART NUMBER | PACK TYPE | PACK SIZE |
|------------------------------------|-------------|-----------|-----------|
| Lead-Free Flux Remover PowerClean™ | MCC-PW210A  | Aerosol   | 300gm     |





# Slow-Drying Flux Remover - Citrus-Based

**EXCELLENT FOR REMOVING FLUXES, STENCIL PASTES, ADHESIVES AND INKS**

- ▶ Citrus-based cleaner is natural and biodegradable
- ▶ Slow drying time helps when cleaning stubborn fluxes
- ▶ Economical choice
- ▶ Strong cleaning, with an orange scent
- ▶ TriggerGrip™ cleaning system compatible

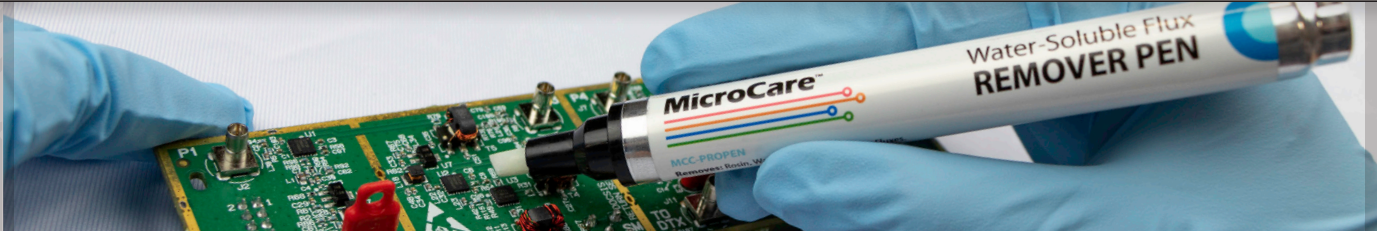


### Technical Details

Chemical Family: Terpene Hydrocarbon | Cleaning Strength (Kb Value): 67 | Flammable | Evaporation: Slow  
 VOC Content (gm/L): 840 | RoHS/WEEE/REACH/EPA SNAP Compliant | NSN: 6850-01-549-3821

| PRODUCT                                  | PART NUMBER | PACK TYPE | PACK SIZE |
|--|-------------|-----------|-----------|
| Slow-Drying Flux Remover<br>Citrus Based | MCC-EC7M    | Aerosol   | 284gm     |

## The Industry's BEST FLUX REMOVERS in convenient cleaning pens



**NO CLEAN  
FLUX REMOVER**  
Cleaning Pen



**IDEAL FOR SPOT-CLEANING  
NO-CLEAN FLUXES ON PCBs**

- ▶ Best on no-clean fluxes, silicone oils, coatings, grease, adhesives and inks
- ▶ Mild cleaner with a low odour and fast drying time

**WATER SOLUBLE  
FLUX REMOVER**  
Cleaning Pen



**MAKES TOUCH-UP CLEANING  
OF OA FLUXES FAST AND EASY**

- ▶ Cleans rosin, water based and no-clean fluxes and fresh chip bonder
- ▶ Medium strength cleaner with an alcohol odour and slow drying time

**RMA  
FLUX REMOVER**  
Cleaning Pen



**REMOVES THE TOUGHEST,  
HEAVY AGED & BURNED-ON  
SOLDER PASTES**

- ▶ Good at removing polar and ionic activators in rosin, RA and RMA fluxes
- ▶ Strong cleaner with an acetone odour and a slow drying time

| PRODUCT                                 | PART NUMBER | PACK TYPE | PACK SIZE |
|---|-------------|-----------|-----------|
| No Clean Flux Remover Cleaning Pen      | MCC-DC1PEN  | 1 Pen     | 10mL      |
| Water Soluble Flux Remover Cleaning Pen | MCC-PROPEN  | 1 Pen     | 10mL      |
| RMA Flux Remover Cleaning Pen           | MCC-RMAPEN  | 1 Pen     | 10mL      |



# TRIGGERGRIP™ CLEANING SYSTEM

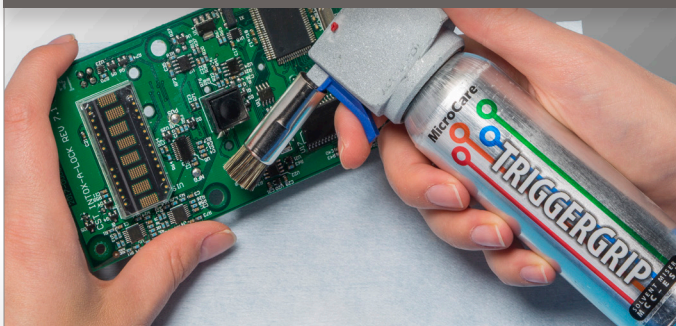


## TriggerGrip™ Dispensing Tool

**MAKES HIGH-QUALITY BENCHTOP CLEANING FAST, EASY AND MORE AFFORDABLE**

The unique TriggerGrip™ PCB cleaning tool fits onto most MicroCare aerosol cans. It improves benchtop cleaning results, improves worker productivity, reduces waste, protects the environment, enhances worker safety and cuts production costs.

▶ Watch the *TriggerGrip* Tutorial at [microcare.com/tgt](http://microcare.com/tgt)



- ▶ Fresh, pure fluid cleans and rinses away contaminants
- ▶ Scrubbing brush gets into tight spaces
- ▶ Reduces solvent use by about 66% - targets dirty areas & eliminates overspray
- ▶ Minimises cleaning fluid odour
- ▶ Empties the can completely – no waste

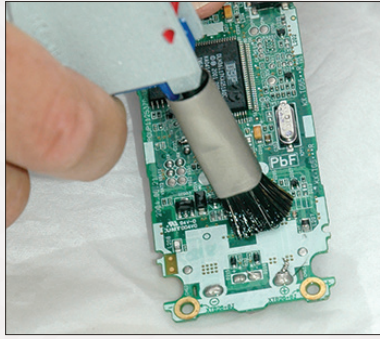
| PRODUCT  | PART NUMBER | PACK TYPE                   |
|--|-------------|-----------------------------|
| TriggerGrip™ Dispensing Tool & One Standard Natural Bristle Brush (MCC-RBNB) | MCC-ESD     | 1 Tool/Box<br>10 Boxes/Case |





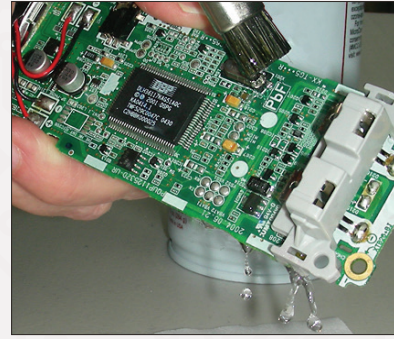
**CONNECT**

- ▶ Remove the tamper-proof seal off the top of the can
- ▶ Connect the TriggerGrip™ cleaning tool to the aerosol



**WET & SCRUB**

- ▶ Hold the PCB board at a slight angle
- ▶ Spray a small amount of the cleaning fluid
- ▶ Gently scrub residues
- ▶ Spray again if needed



**RINSE & DRY**

- ▶ Once the residue is loosened, lift the brush off the board and spray a small amount of the cleaning fluid to rinse
- ▶ Use a lint-free wipe or dust remover, if desired to dry

**TriggerGrip™ Replacement Brushes**

- ▶ Natural bristle brushes slip easily into place
- ▶ Reduce cleaning fluid consumption
- ▶ Speed up cleaning process
- ▶ Last 3-4 months in normal rework environment

Standard Brush  
MCC-RBNB



Surface Mount Brush  
MCC-SMB



Slo-Flo Brush  
MCC-RBNB2



Spray-Thru Syringe  
MCC-SR35



**Bench Mounting Kit**

- ▶ Conveniently holds the aerosol can and the TriggerGrip Dispensing Tool
- ▶ Keeps aerosol can from tipping and falling
- ▶ Organises work bench
- ▶ ESD-safe



**Bench Mounting Kit**  
*includes mounting hardware*

| PRODUCT                      | PART NUMBER | PACK TYPE      |
|------------------------------|-------------|----------------|
| Standard Brush               | MCC-RBNB    | 5 Brushes/Box  |
| Surface Mount Brush          | MCC-SMB     | 5 Brushes/Box  |
| Slo-Flo Brush                | MCC-RBNB2   | 5 Brushes/Box  |
| Spray-Thru Syringe .035 O.D. | MCC-SR35    | 5 Syringes/Box |

| PRODUCT            | PART NUMBER | PACK TYPE                  |
|--------------------|-------------|----------------------------|
| Bench Mounting Kit | MCC-BK3     | 1 Kit/Box<br>10 Boxes/Case |



# PRESATURATED WIPES & REFILLS



**“Slam-shut” tub won’t dry out.**

### MONEY-SAVING REFILLS

- ▶ Reduce waste and save money by re-using the rugged plastic tubs
- ▶ Refill packages contain the same heavy-duty wipes and fluid as the tubs, at reduced costs



### PRESATURATED WIPE TUBS

- ▶ Convenient presaturated wipes are excellent for stencil cleaning and general surface prep
- ▶ Quickly remove solder paste and clean fingerprints, oils, grime, lint and dust from SMT stencils, plastics, metals and glass
- ▶ Each tub contains 100 strong, lint-free polyester wipes saturated with cleaning fluid
- ▶ Unique “slam-shut” lid extends the wipes shelf life by keeping it wet/pre-saturated

## MultiTask Surface Cleaner Presaturated Wipe - MultiClean™

- ▶ Mild, economical surface cleaner for electronics, PCBs, tools, machinery and work benches
- ▶ Removes solder paste, fluxes, finger prints, uncured epoxy residues, light oils and grease
- ▶ 70% Isopropyl alcohol and 30% deionised water saturated wipes
- ▶ Heavy duty, ESD-safe wipe
- ▶ More aggressive and effective than normal economy wipes, used when additional strength is required



| PRODUCT                                 | PART NUMBER | PACK TYPE/SIZE     |
|---|-------------|--------------------|
| MultiTask Surface Cleaner - MultiClean™ | MCC-MLCW    | 100 Wipes, 8” x 5” |
| Refill                                  | MCC-MLCWR   | 100 Wipes, 8” x 5” |



## ESD Presaturated Cleaning Wipes

The ESD Cleaning Wipe provides fast and safe cleaning in almost any production environment. Static dissipative lint-free wipes for cleaning ESD mats, bins, benches, tool racks and more. Thoroughly cleans flux, uncured adhesives, dirt, grease and oils.

- ▶ Non-corrosive, very pure solvent
- ▶ Presaturated and static dissipative lint-free wipes for cleaning ESD mats, bins, benches, tool racks and more
- ▶ Thoroughly cleans flux, uncured adhesives, dirt, grease and oils
- ▶ Environmental friendly formula
- ▶ Nonflammable, no IPA formula
- ▶ Does not dry out or flash near a heat source
- ▶ Heavy duty, ESD-safe wipe
- ▶ More aggressive and effective than normal economy wipes, used when additional strength is required



| PRODUCT                         | PART NUMBER | PACK TYPE/SIZE     |
|---------------------------------|-------------|--------------------|
| ESD Presaturated Cleaning Wipes | MCC-EC00W   | 100 Wipes, 8" x 5" |
| Refill                          | MCC-EC00WR  | 100 Wipes, 8" x 5" |

## Alcohol-Enhanced Presaturated Wipe - ProClean™

- ▶ Non-corrosive, very pure blend, water-free alcohols
- ▶ Excellent on lead-free pastes
- ▶ Stronger, faster stencil cleaner
- ▶ Faster drying, no rinsing required
- ▶ Heavy duty, ESD-safe wipe
- ▶ More aggressive and effective than normal economy wipes, used when additional strength is required



| PRODUCT                      | PART NUMBER | PACK TYPE/SIZE     |
|------------------------------|-------------|--------------------|
| Alcohol-Enhanced - ProClean™ | MCC-PROW    | 100 Wipes, 8" x 5" |
| Refill                       | MCC-PROWR   | 100 Wipes, 8" x 5" |



# CONTACT CLEANER & CIRCUIT CHILLER

## Universal Contact Cleaner

### RESTORES ELECTRICAL CONTINUITY

- ▶ Plastic-safe contact cleaner and circuit rinse
- ▶ Rinses away dust, lint, grit, light oils
- ▶ Ideal for use on connectors, switches, electromechanical parts, circuit boards, cable harnesses, motors, keyboards and windings
- ▶ Dries in seconds with no residue
- ▶ TriggerGrip™ cleaning system compatible



#### Technical Details

Chemical Family: HFO  
 Cleaning Strength (Kb): 34  
 Nonflammable  
 Evaporation: Fast  
 VOC Content (gm/L): 59  
 RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT                   | PART NUMBER | PACK TYPE/SIZE |
|---------------------------|-------------|----------------|
| Universal Contact Cleaner | MCC-CCH10A  | 300gm Aerosol  |

## Circuit Chillers General Purpose & Anti-Static

### QUICKLY FIND INTERMITTENT FAULTS IN CIRCUIT BOARDS

- ▶ ESD-safe when used with the StatZap™ tool
- ▶ Leaves ice on the PCB momentarily
- ▶ Chills to lower than -45°C in seconds
- ▶ Nonflammable and ultra-pure



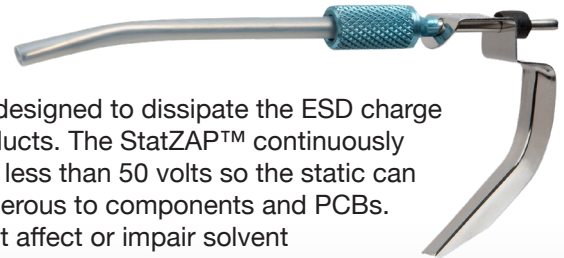
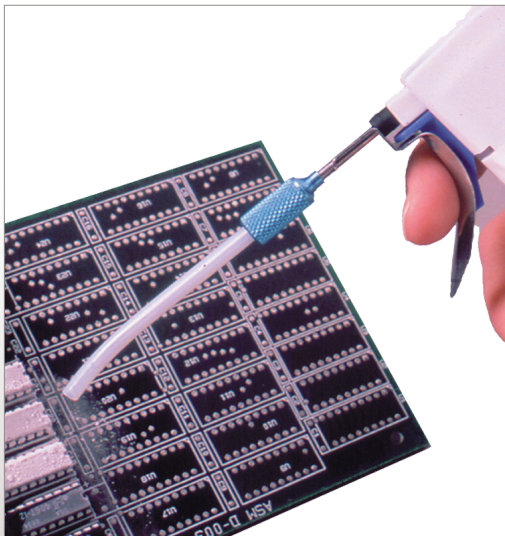
#### Technical Details

Chemical Family: HFC Blend  
 Nonflammable  
 Evaporation: Instant  
 RoHS/WEEE/ REACH/  
 EPA SNAP Compliant  
 NSN: 6850-01-409-2602

| PRODUCT                         | PART NUMBER | PACK TYPE/SIZE |
|---------------------------------|-------------|----------------|
| General Purpose Circuit Chiller | MCC-FRZ     | 280gm Aerosol  |
| Anti-Static Circuit Chiller     | MCC-FRZA    | 280gm Aerosol  |

## StatZAP™ ESD Eliminator

### ELIMINATES ESD DAMAGE



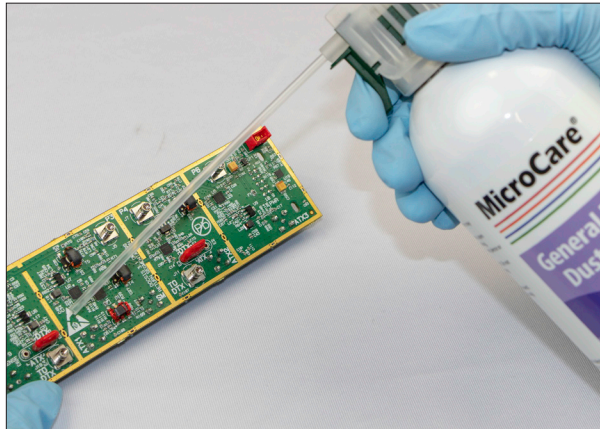
Handy dispensing tool designed to dissipate the ESD charge created by aerosol products. The StatZAP™ continuously drains static charges to less than 50 volts so the static can never reach levels dangerous to components and PCBs. The StatZAP™ does not affect or impair solvent performance.

- ▶ Eliminates ESD static and damage
- ▶ Unique ShockShield™ prevents contact with energised circuits
- ▶ Fits most MicroCare™ aerosols  
*(Not for use with general purpose dust removers)*

| PRODUCT                 | PART NUMBER | PACK TYPE  |
|-------------------------|-------------|------------|
| StatZAP™ ESD Eliminator | MCC-ZAP     | Case of 10 |



# GENERAL PURPOSE DUST REMOVERS



These high-pressure compressed dusters are widely used to remove dry dust and lint from PCBs, optics, machinery, circuitry and keyboards.



Each aerosol delivers a powerful dry blast of a clear, non-flammable gas to blow dust, lint, fibers, powder and grit away. The surface remains dry during cleaning.



- ▶ Nonflammable for maximum safety
- ▶ High-purity, leaves no residues
- ▶ Completely ozone-safe



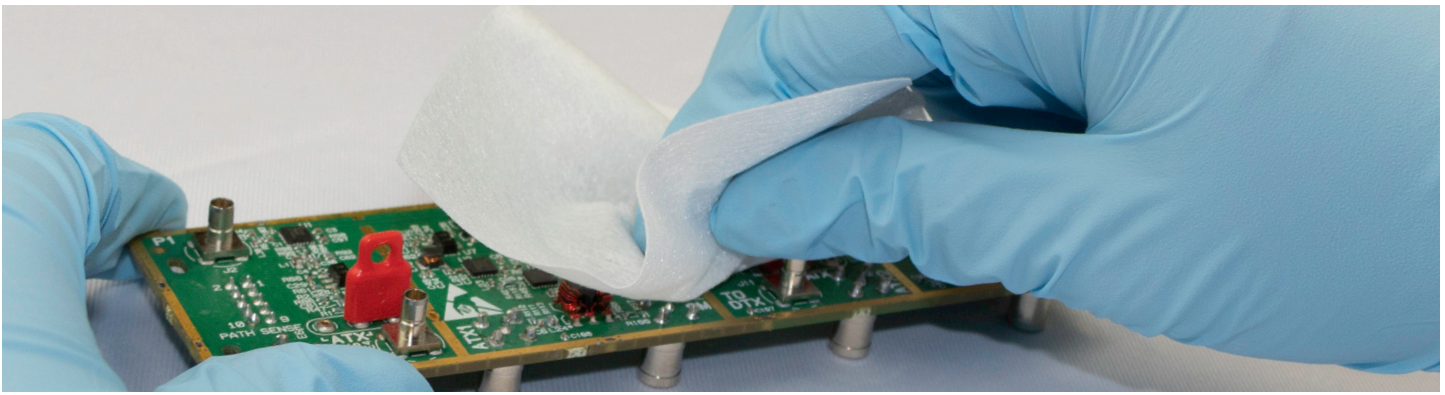
**360°** The 360° style can be sprayed at any angle to simplify cleaning.



## Technical Details

Chemical Family: HFC or HFO | Evaporation: Instant | Nonflammable | VOC Content (gm/L): 0  
RoHS/WEEE/REACH/EPA SNAP Compliant | NSN: 6850-01-483-4104

| PRODUCT  | PART NUMBER | PACK TYPE     | HIGH-PRESSURE BLAST | INVERTIBLE 360° SPRAY | StatZap* COMPATIBLE |
|--|-------------|---------------|---------------------|-----------------------|---------------------|
| General Purpose Dust Remover                       | MCC-DST14A  | 392gm Aerosol | √                   | ---                   | ---                 |
| General Purpose Dust Remover (StatZap* COMPATIBLE) | MCC-DSTZ14  | 392gm Aerosol | ---                 | ---                   | √                   |
| General Purpose Dust Remover 360°                  | MCC-DST08A  | 237gm Aerosol | ---                 | √                     | ---                 |



## Lint-Free Wipes

### VARIETY OF SIZES, PACKAGING & WEIGHTS FOR EVERY APPLICATION

- No binders ensuring maximum purity
- Enormous variety of woven, knitted and non-woven choices
- All are high strength, non-linting fabric for max performance
- High-purity packaging available for cleanroom environments
- Optical grades also available

| PRODUCT   | DESCRIPTION   | PART NUMBER | SIZE & PACK TYPE          |
|---|---|-------------|---------------------------|
| <b>General Purpose Wipes</b><br>NSN: 7920-01-428-4372 | <ul style="list-style-type: none"> <li>• Economical, medium absorption polyester/cellulose wipes</li> <li>• Great for use on the rework bench</li> </ul>                                    | MCC-W66     | 6" x 6"<br>50 Sheets/Bag  |
|   | <ul style="list-style-type: none"> <li>• Jumbo economy package - lint-free paper wipes</li> <li>• Optimal size for stencil wiping</li> </ul>  | MCC-W99     | 9" x 9"<br>300 Sheets/Bag |
| <b>Optical Grade Wipes</b>                            | <ul style="list-style-type: none"> <li>• High-purity, optical-grade polyester wipes</li> <li>• Sized for more delicate cleaning - optical devices, microscopes and smaller tools</li> </ul> | MCC-WF44    | 4" x 4"<br>50 Sheets/Bag  |
| <b>Stencil Wipes</b>                                  | <ul style="list-style-type: none"> <li>• Strong, absorbent synthetic polymer wipes</li> <li>• Sized for the rework bench</li> </ul>   | MCC-W66DF   | 6" x 6"<br>300 Sheets/Bag |
|   | <ul style="list-style-type: none"> <li>• Stronger synthetic polymer wipes with great lifting ability</li> <li>• Optimal size for stencil wiping</li> </ul>                                  | MCC-W99DF   | 9" x 9"<br>300 Sheets/Bag |

For more sizes and materials, contact MicroCare™.

## FP (Fine Pitch) Stencil Cleaning Rolls

### EXACT REPLACEMENT TO OEM ROLLS AT COMPETITIVE PRICES

- Unique MicroCare™ FP fabric for fine-pitch stencil printing applications
- Durable and absorbent FP stencil wipes eliminate the need to use solvents during automated understencil wiping
- Reduces roll consumption and shortens cleaning cycle

**MicroCare™ has many additional rolls and custom configurations. Call for details.**



| PRODUCT                     | PART NUMBER | SIZE (length x width) |
|-----------------------------|-------------|-----------------------|
| <b>MPM Premium FP</b>       | MCC-101DA   | 11.89m x .45m         |
| <b>DEK Premium FP</b>       | MCC-105DA   | 9.14m x .53m          |
| <b>Panasonic Premium FP</b> | MCC-108DA   | 10m x .35m            |
| <b>EKRA Premium FP</b>      | MCC-J174DA  | 6.7m x .5m            |





## Aqueous Stencil Cleaner

- ▶ Removes all types of solder pastes, uncured chip bonder and inks
- ▶ Safe for stencils, webbing, frames and misprinted boards
- ▶ Fast and thorough cleaning, even inside stencil apertures
- ▶ Slow-drying for economical cleaning
- ▶ Suitable for use in ultrasonic cleaning tanks
- ▶ Nonflammable and non-foaming



### Technical Details

Chemical Family: Water-Based  
 Nonflammable | VOC Content (gm/L): 209  
 RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT                 | PART NUMBER | PACK TYPE/SIZE          |
|-------------------------|-------------|-------------------------|
| Aqueous Stencil Cleaner | MCC-BGA     | Pump Spray / 340mL      |
|                         | MCC-BGAP    | Cube Container / 14.52L |

## Reflow Oven Cleaner

- ▶ Speeds cleaning of ovens even when hot
- ▶ Cleans pallets, baffles, heating elements, clamps, chains, drive gears and housings
- ▶ Can be used in dip tanks and ultrasonic cleaners
- ▶ Melts away burned-on flux residues from wave solder machines and reflow ovens
- ▶ Four times faster than isopropyl alcohol
- ▶ Nonflammable and non-foaming



### Technical Details

Chemical Family: Water-Based  
 Nonflammable | VOC Content (gm/L): 50  
 RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT             | PART NUMBER | PACK TYPE/SIZE          |
|---------------------|-------------|-------------------------|
| Reflow Oven Cleaner | MCC-ROC     | Pump Spray / 340mL      |
|                     | MCC-ROCP    | Cube Container / 13.61L |

## OPTIXX™ Lens & Instrument Cleaning Kit



- ▶ Use on high-precision optical lenses, mirrors, prisms, solar cells, laser hardware and scientific instruments
- ▶ Cleans dust, oil and grime, pyrotechnic soot moisture from glass, metals, plastic and coatings
- ▶ Eliminates “static cling” that attracts dust
- ▶ Non-aerosol pump ships anywhere as “non-hazardous / not regulated”

| PRODUCT   | PART NUMBER | PACKAGING                                     |
|---|-------------|---|
| OPTIXX™ Precision Lens & Instrument Screen Cleaning Kit | MCC-OTXCK   | Cleaning Kit: Cleaning Fluid & Cleaning Wipes |

## VDX Dry Lubricant Spray

- ▶ PTFE dry lubricant spray provides a dry, slippery coating
- ▶ Reduces “stiction” and wear associated with surface-to-surface movement
- ▶ Non-migrating spray stays where it is applied
- ▶ Use on metals, plastics and ceramics
- ▶ Nonflammable and no odor



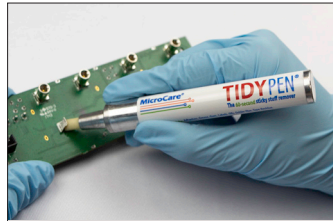
| PRODUCT                 | PART NUMBER | PACK TYPE/SIZE |
|-------------------------|-------------|----------------|
| VDX Dry Lubricant Spray | MCC-VDX     | 340gm Aerosol  |



# TidyPen™ Adhesive & Label Remover

## THE 60-SECOND STICKY STUFF REMOVER

- ▶ Simple, fast and convenient cleaning
- ▶ Excellent for removing adhesives, tape residues, pressure sensitive marking tags, paper labels, stickers, EPROM labels and Kapton® residues
- ▶ Extremely cost-effective



Circuit Boards



MicroCare®  
**TIDYPEN®**  
The 60-second sticky stuff remover

Removes anything sticky:  
Adhesives, Grease,  
Gum, Labels, Oils,  
Solder Flux, Tape Residue.

5 Pens

### Technical Details

Chemical Family: Terpene Hydrocarbons | Cleaning Strength: 67 | Flammable | VOC Content (gm/L): 840 | RoHS/WEEE/REACH/EPA SNAP Compliant  
NOTE: Not for sale in California

| PRODUCT                           | PART NUMBER | PACK TYPE                       |
|-----------------------------------|-------------|---------------------------------|
| TidyPen™ Adhesive & Label Remover | MCC-PEN     | 5 Pens / Box<br>20 Boxes / Case |
| TidyPen™ Chisel-Point Nibs        | MCC-P40C    | Bag of 25                       |
| TidyPen™ Pen-Point Nibs           | MCC-P40P    | Bag of 25                       |

## Heavy-Duty Transit Cleaner

- ▶ Specifically engineered for use on buses, trains, trolleys, elevators and escalator systems
- ▶ Extra-strength cleaner easily and quickly removes dirt, grease, oils, inks and organic grime from machinery and metal parts
- ▶ No residue/no rinsing
- ▶ Nonflammable and fast-drying



### Technical Details

Chemical Family: HFC Blend  
Nonflammable | VOC Content (gm/L): 757  
RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT                    | PART NUMBER | PACK TYPE/SIZE |
|----------------------------|-------------|----------------|
| Heavy-Duty Transit Cleaner | MCC-HDTC19A | 540gm Aerosol  |

## Heavy-Duty Degreaser

- ▶ Super strong, multipurpose degreaser cleans most oils, wax, grease and some conformal coatings
- ▶ Instant drying, low odour
- ▶ No residue/no rinsing
- ▶ Nonflammable, ESD-safe
- ▶ Test on plastics



### Technical Details

Chemical Family: HFC Blend  
Nonflammable | VOC Content (gm/L): 757  
RoHS/WEEE/REACH/EPA SNAP Compliant

| PRODUCT              | PART NUMBER | PACK TYPE/SIZE |
|----------------------|-------------|----------------|
| Heavy-Duty Degreaser | MCC-HDD19A  | 540gm Aerosol  |



Most no-clean fluxes are more difficult to clean than rosin-based fluxes and pastes. These contaminants require a cleaner that is formulated with aggressive solvency, and possibly using inorganic fluids to fully remove any white residue. MicroCare offers several proven formulations that when used with a properly designed vapour degreaser, can consistently clean difficult-to-clean fluxes. These cleaning fluids are engineered with the right chemical characteristics (boiling point, specific gravity, surface tension, and more) to wet every surface, getting into and out of the tiny nooks and apertures to remove fluxes and contaminants.



## WHAT IS VAPOUR DEGREASING?

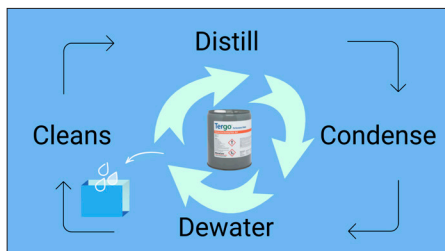
- ▶ An industrial cleaning process used to thoroughly clean and dry precision parts such as circuit boards with shrinking surface features
- ▶ Simple-to-use, closed-loop and non-aqueous cleaning system
- ▶ Utilised as a batch cleaning system in EMS (Electronic Manufacturing) environments

## WHY USE VAPOUR DEGREASING?

- ▶ Very Effective Cleaning Results
- ▶ Safe, Environmentally Accepted
- ▶ Improves Manufacturing Efficiency
- ▶ Small Footprint, Uses Less Electricity
- ▶ Reduces Waste, Cost Effective

## HOW DOES VAPOUR DEGREASING WORK?

Compact, efficient, two-sump degreasers boil a solvent producing a vapor. The cold primary condensing coils contain these vapors by cooling the vapor back into a liquid, dissolving soils which then drip away by way of gravity.



## SOLVENT RECOVERY SYSTEM ELIMINATES WASTE WATER TREATMENT

A vapour degreasing cleaning system continuously recycles and purifies the solvent for reuse without the need for waste water treatment.

## IT IS TIME TO MAKE A CHANGE

MicroCare is the global leader in critical cleaning. We know more about vapor degreasing and cleaning fluids than anybody, so you get the best solution for your unique application.





## Fiber Optic Cleaning Products

Inspect, Clean, Inspect with Top Quality Cleaners & Tools



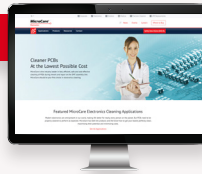
- Sticklers™ Fiber Optics Cleaning Kits
- Sticklers™ CleanClicker - 1.25mm / 2.5mm / MPO
- Sticklers™ CleanStixx™ Connector Cleaning Sticks
- Sticklers™ Lint-free Optical Grade Clean Wipes
- Sticklers™ Fiber optic Splice & Connector Cleaning Fluid

[SticklersCleaners.com](http://SticklersCleaners.com)



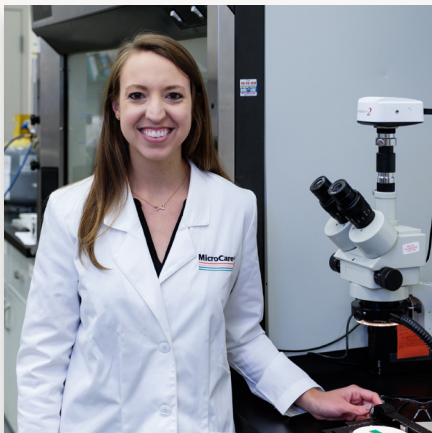
### Global Reach with Local Expertise

- ▶ Technical Experts
- ▶ Regulatory Compliance
- ▶ World-Class Customer Service



### MicroCareElectronics.com

- ▶ View Full Product Line
- ▶ Watch Instructional Videos
- ▶ Download SDS & Technical Data Sheets
- ▶ Regulatory News, Case Studies & more!



### Lab Services Solve Problems



Our team of chemists, technical engineers and regulatory specialists provide solutions for today's most challenging critical cleaning problems.



**ON-SITE  
CLEANING AUDITS**



**IN-LAB  
CLEANING TRIALS**



**DETAILED CLEANING  
RECOMMENDATIONS**

### CONTACT US TODAY

**MicroCare Corporation**  
595 John Downey Drive  
New Britain, CT 06051 USA  
Tel: +1 860 827 0626  
Toll Free: 1 800 638 0125  
Email: TechSupport@MicroCare.com

**MicroCare Europe BVBA**  
Vekestraat 29 B11  
Industriezone 't Sas  
1910 Kampenhout, Belgium  
Tel: +32 2 251 95 05  
Email: EuroSales@MicroCare.com

**MicroCare Asia Pte Ltd**  
102E Pasir Panjang Road  
#03-01 Citilink Warehouse Complex  
Singapore 118529  
Tel: +65 6271 0182  
Email: TechSupport@MicroCare.sg

**MicroCare U.K. Ltd**  
Seven Hills Business Park,  
Morley,  
Leeds, West Yorkshire, UK  
LS27 8AT  
Tel: +44 (0) 113 3501008  
Email: mcceurope@microcare.com

Distributed by:

