

BGA Stencil Cleaner

It's No Surprise: A Better Tool Delivers Faster, Better Stencil Cleaning



The BGA Stencil Cleaner is a strong, nonflammable solvent engineered for manually cleaning fine-pitch SMT and BGA stencils

- **Great on All Pastes, Including Lead-Free and No-Clean**
- **Loosens Pastes from the Smallest Apertures, Without Residues**
- **Low Aroma and Slower Drying for Optimal Tack-Time**
- **Nonflammable, Noncorrosive**
- **A Huge Time-Saver that Out-Performs Alcohol Cleaners**

General Information

MicroCare's premier stencil cleaner is a versatile, water-based solvent optimized for pastes, inks and epoxies. Because it works better, the cleaning is faster, so defects go down and throughput jumps. In short, this product enhances productivity, boost yields and lowers production costs.

About the Product

The BGA Stencil Cleaner blends safe, nonflammable water-based ingredients with aggressive, proprietary alcohols. The result is a powerful cleaner which is ideal for stencils, frames, boards and the stencil printer itself. It removes all solder pastes — including lead-free materials — plus epoxies and some inks. This powerful cleaner minimizes the risk of damage to stencils from scrubbing with weaker cleaners.

The Stencil Cleaner is optimized for room temperature cleaning; it needs no heat to be effective. It has almost no aroma and the tack-time has been optimized for stencil cleaning. It delivers excellent results in ultrasonic systems and dip tanks because it is a nonfoaming cleaner, unlike many other water-based products. Many customers use Stencil Cleaner as a general-purpose solvent, cleaning stencil printers, misprinted PCBs, workbenches and tools, CRTs, keyboards and other assembly and test equipment,

Safe on all metals, synthetics, plastics and elastomers, the BGA Stencil Cleaner leaves no residues and is noncorrosive. It will, however, remove stencil alignment markings if they were made with water-based inks. The cleaner is nonflammable and generally safe for people to use. With excellent environmental characteristics, the BGA Stencil Cleaner is a sophisticated choice.



Technical Details

Chemical Family	Water-based
Appearance	Colorless Clear Liquid
Aroma	Slight, aromatic
Boiling Point	>97° C / 208° F
Percent Volatile	100%

Health, Safety & Environmental Data

Toxicity Rating	None assigned
Flashpoint (TCC)	None
Safety Rating	Nonflammable
NFPA	Health: 0; Fire: 0; Reactivity: 0
Ozone Impact	Zero
VOC Content (g/L)	224
REACH and ELINCS Compliant	Yes
RoHS and WEEE Compliant	Yes
SNAP Approved	Not Applicable

Packaging

Pump Spray	12 oz. / 340 g	MCC-BGA
Minicube	7 lbs. / 3.15 k	MCC-BGAG
Cubitainer	32 lbs. / 14.51 k	MCC-BGAP
Drum	400 lbs. / 181.4 k	MCC-BGAD

This product is packaged in the refillable pump sprayer (photo, left). The refillable pump sprayers are packaged in cases of ten (10) cans per box. Money-saving refills are packaged in Micro Care's unique, easy-pouring "cubitainers" which reduce the risk of spills and minimize injuries from lifting heavy containers. Refills are available in the sizes shown above.

The shelf life for all of these products is unlimited.

Each case of pump sprayers are packaged with 100 sheets of the recommended lint-free wipe for benchtop cleaning of tools and test equipment. Bulk products do not come with lint-free wipes.

Shake before use. The cleaner will separate over time; momentary shaking will return the solvent to a completely mixed condition. For this reason, this product is not suited for use in automatic stencil printers. In bulk cleaning machines, ensure the solvent is agitated before pouring it into the machine or the solvent may foam during use.

Related Products

For stronger cleaning, switch to the **Reflow Oven Cleaner**, a water-based solvent that's engineered to use heat to enhance cleaning. This speeds cleaning and reduces waste. A wide variety of lint-free wipes and stencil rolls also are available from MicroCare.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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Reflow Oven Cleaner

Uses Free Residual Heat to Speed Cleaning on Ovens, Pallets, Conveyors



The Reflow Oven Cleaner is more powerful and highly cost-effective because it leverages the residual heat of the oven to speed the cleaning process

- Great on All Pastes, Including Lead-Free and No-Clean
- Slower Drying for Maximum Throughput and Optimal Tack-Time
- Highly Economical
- Nonflammable for Safety
- Out-performs Alcohol

General Information

The Reflow Oven Cleaner uses the heat of the ovens, solder machines, pallets and conveyors to speed the cleaning of these essential systems. Because it cleans better with less effort, this cleaner boosts productivity and lowers costs.

About the Product

The Reflow Oven Cleaner attacks charred, baked-on flux residues with a mix of water, alkaloids and proprietary long-chain alcohols. This cleaner becomes more active when heated. Since most reflow ovens are

already warm, using that latent heat makes the cleaning process faster and the results better. When compared to flammable alcohol cleaners, Reflow Oven Cleaner slashes cleaning times 50% while improving results.

Using alcohol on reflow ovens makes the cleaning more difficult. Alcohol actually cures the flux residues in the oven, so the chore becomes slower and harder after each cleaning cycle. The Reflow Oven Cleaner cuts through the residues and actually makes the process easier over time. It's simply a better tool, so it's easier for techs do a better job. Similarly, because this cleaner is nonflammable, it often is used to replace alcohol in the finger cleaning systems of wave solder machines. It also is used on pallets, conveyors, flux condensers, baffles, heating elements, clamps, chains, pulleys, gears and housings. It is suitable for hand-wiping or ultrasonic dip tanks.

This product removes all flux residues. The cleaner dries quickly, leaves no residues and is noncorrosive. It is a sophisticated, ozone-safe, environmentally progressive cleaning choice.



Technical Details

Chemical Family	Aqueous Blend
Appearance	Clear Liquid
Aroma	Mild, aromatic
Boiling Point	>97° C / 208° F

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-hr., TWA, PEL)	See MSDS
Flashpoint (TCC)	None
Safety Rating	Nonflammable
NFPA Ratings	Health: 1; Fire: 0; Reactivity: 0
Ozone Impact	Zero
Non-exempt Organic Content (g/L)	495
REACH and ELINCS Compliant	Yes
RoHS and WEEE Compliant	Yes
SNAP Approved	Not Applicable

Packaging

Pump Spray	12 oz. / 340 g	MCC-ROC
Minicube	7 lbs. / 3.16 k	MCC-ROCG
Cubitainer	30 lbs. / 13.6 k	MCC-ROCP
Drum	436 lbs. / 197.8 k	MCC-ROCD

This product is packaged in the refillable pump sprayer (photo, left). The refillable pump sprayers are packaged in cases of ten (10) cans per box. Money-saving refills are packaged in Micro Care's unique, easy-pouring "cubitainers" which reduce the risk of spills and minimize injuries from lifting heavy containers. Refills are available in the sizes shown above.

The shelf life for all of these products is unlimited.

Each case of pump sprayers are packaged with 100 sheets of the recommended lint-free wipe for benchtop cleaning of tools and test equipment. Bulk products do not come with lint-free wipes.

Shake before use. Not recommended for use in stencil printers. Ensure the solvent is agitated periodically or the solvent will foam during cleaning. For best results, use when the oven or wave solder machine is warm but not hot (approx. 45° C / 107° F). Always wear gloves when working near solder paste.

This cleaner is optimized for heated applications. In bulk cleaning machines, the solvent can be warmed to 60° C/140° F for extremely effective cleaning. In a cold dip tank, heat the cleaner with an immersion heater. A 240 volt, single-phase immersion heater will raise 30 gals./ 110 liters of solvent to 45° C / 107° F in two hours. Available from Pearse-Bertram, Bloomfield CT USA at 860.242.7777.

Related Products

For milder, nonflammable cleaning, switch to the **BGA Stencil Cleaner**, a water-based solvent that's designed for manual cleaning of stencils and tools. A wide variety of **lint-free wipes** and **stencil rolls** also are available from MicroCare.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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Micro•Freeze™ EU & Big•Blast™ EU

Fast, Convenient and Environmentally Progressive

New!



Micro•Freeze™ and Micro•Blast™ are drop-in replacements for today's old-style "canned air" and freeze spray aerosols.

- **Totally New Chemistry for Circuit Cleaning and Troubleshooting**
- **F-Gas Rule Compliant**
- **REACH & ELINCS Pre-Registered**
- **Nonflammable for Safety**
- **Available Only from MicroCare**

General Information

These two products are the latest innovation in freeze sprays and "canned air." They are the first electronics cleaners in the world to feature tetrafluoropropene, an innovative new hydrofluoro-olefin (HFO) propellant with a very low global warming potential (see "Packaging"

notes). Available only in Europe, these products comply with the EU's new regulations to minimize global warming caused by industrial gasses (the "F-Gas rules").

MicroCare's products are excellent choices for trouble-shooting, cleaning and repairing electronics. They can be used on electronics, connectors, medical devices, keyboards, keypads, mechanical parts and hard-to-clean surfaces.

The propellant is double-filtered to 0.2 microns of purity. The products are noncorrosive, residue-free and, unlike less expensive products, are not flammable which enhances safety.

Freeze Sprays

Micro•Freeze™ chills components instantly. It meets the mil spec target of -40°C and can get as low as -60°C under optimal conditions. Use Micro•Freeze to cool components, to test them for stress fractures and for troubleshooting intermittent failures on PCBs. This product is StatZAP™ compatible (#MCC-ZAP), for improved ESD control.

Canned Air

Micro•Blast™ delivers reliable cleaning of dry contaminants. Nonabrasive Micro•Blast quickly removes dust, lint, dirt and other dry material from electronics and mechanical devices. The cans are equipped with a high-flow valve which enables significantly more "pushing power" than traditional aerosols.



Product Details

Chemical Family	Tetrafluoropropene HFO
	(CAS #1645-83-6; ELINCS #471-480-0)
Aroma	Slight, ethereal
Boiling Point	-19° C
Evaporation Rate	>>1
Vapor Pressure @ 20°C	4220 hPa

Micro•Freeze will deliver circuit chilling to as low at -40°C/-40°F under all conditions and as low as -60°C/-76°F under optimal conditions with a skilled operator.

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-hr. TWA, REL)	1000
	(Manufacturer specified)
Flashpoint (TCC)	None
Safety Rating	Nonflammable
	(ASTM ME-681, EU A-11)
NFPA Ratings	Health: 1; Fire: 0; Reactivity: 1
Ozone Impact	Zero
Non-Exempt Organic Content (g/L)	Zero
Global Warming Rating (100 yr)	6
REACH & ELINCS Pre-Registered (See MSDS)	Yes
RoHS and WEEE Compliant	Yes
F-Gas Compliant	Yes

Packaging

Micro•Freeze™ Circuit Chiller	300 g MCC-FRZ107
Big•Blast™ Canned Air	300 g MCC-AIR107

These two products replace all earlier versions of these products packaged with HFC-134a. Packaged in cases of twelve (12) cans per box. Shelf life is unlimited. The propellant in these aerosols is one of the first F-gas rule compliant propellants, tetrafluoropropene (CAS#1645-83-6; ELINCS#471-480-0). Tetrafluoropropene is a drop-in replacement for HFC-134a (the industry standard for these products) and/or HFC-152b. It has a global warming impact of six (as opposed to a rating of 1,400 of HFC-134a) and does not contain smog-causing VOCs. The tetrafluoropropene formulation is protected under patent-pending status in the U.S.

Importantly, these products do not require the extra-strength high-pressure aerosol cans competing products use, and so are easier and less expensive to ship.

Micro•Freeze is compatible with the StatZAP™ dispenser, #MCC-ZAP, to minimize damage from static charges. Big•Blast is not StatZAP™ compatible.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors across Europe. Contact your local distributor at www.MicroCare.com for details.

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The Amazing TidyPen®

Incredibly Convenient, Now You Can Quickly & Easily Remove Anything Sticky



Each TidyPen® features a strong, natural, citrus solvent which easily removes almost anything sticky — glues, tape residues or even tar

- **Fast Working and Easy to Use**
- **Mild, Pleasant Citrus Aroma**
- **Convenient Size - Use Anywhere**
- **Planet-Safe and Recyclable**
- **Long-Lasting — Unlimited Shelf Life**
- **A Huge Time-Saver**

General Information

Long lasting, inexpensive and super-convenient, the TidyPen® is a great answer to many exasperating cleaning problems. A TidyPen can quickly remove almost any sticky residues, without fuss or a lot of elbow grease.

About the Product

Every TidyPen contains a highly-refined, patented citrus adhesive remover, so it is ozone-safe, non-toxic and biodegradable. Each pen dispenses the solvent precisely, giving the user total control over where the solvent goes and the quantity dispensed. The powerful

cleaner easily removes labels, tapes, adhesives, bar code labels, Kapton® residues, conductive glues, chewing gum, tar, tree sap and much more. Non-staining TidyPens are not plastic-safe, so test on soft plastics before using.

A TidyPen eliminates messy chemicals, fumes, odors and spills, and TidyPens speed cleaning while boosting quality. TidyPens fit in desk drawers, briefcases, computer bags, shirt pockets and tool box, so they're always conveniently at hand. They're great on the production line and benchtop, in tool kits and labs, even offices and homes. They are used by techs, inspectors, foremen and office workers around the world.

TidyPens are planet-friendly. The cleaner is nontoxic, natural and biodegradable. Plus the packaging is great — each pen is made from unbreakable aluminum, so they are spill-proof, easily recycled and last forever. In short, nothing handles sticky problems faster, more easily or less expensively than the amazing TidyPen.



Technical Details

Chemical Family	Terpene Hydrocarbons
Appearance	Clear, free-flowing liquid
Aroma	Citrus
Boiling Point	169°C / 340°F

Solvency & Cleaning Data

Cleaning Strength (K _B)	67
Specific Gravity (@ 25°C)	0.85
Surface Tension (dynes/cm)	33

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-hr. TWA, PEL)	None (GRAS)
Safety Rating	Combustible
Flashpoint (COC)	47°C / 117°F
NFPA	Health: 1; Fire: 2; Reactivity: 0
Ozone Impact	None
Organic Content (g/L)	890
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

Material Compatibility (Partial Listing):

Little or No Effect: Glass, Paper, Polyethylene, Cardboard, Metals, Polypropylene, Teflon®, Polyallomer, Acetates, Tefzel®, Polysulfone
 Moderate Effect: Polycarbonates, PVC, Low-Density Polyethylene
 Not Recommended: Polymethylpentene, Polystyrene, Rubber, Silicones, Viton®

Packaging

Each TidyPen, 14 mL	MCC-P01
Package of Three Pens	L80881
Bag of 25 Spare Chisel Nibs	MCC-P40C
Bag of 25 Pencil-Point Nibs	MCC-P40P

Note: TidyPens come in boxes of ten pens, except for #L80881, which is a self-sealing mailer containing three pens. Shelf life is unlimited.

Related Products

Lint-free wipes from MicroCare are recommended for industrial users of the TidyPen. The W66 wipe, the **FiberCare** mini-tub perforated wipes, and the **FiberAide** hermetically sealed wipes are all excellent choices. For plastic-safe cleaning of silicones, **VeriClean™** is a fast-drying choice. For removing inks, **ScreenClean™** is the best choice.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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ProClean™

Unexpectedly Sophisticated Cleaning from a Blend of Traditional Alcohols



ProClean™ is often selected for benchtop cleaning because it offers moderate cleaning power and easy handling at a very affordable price

- **More Powerful than Ordinary Alcohol Solvents**
- **Familiar Handling, Drying and Aroma**
- **Safer Toxicity Ratings than Ordinary Alcohol (IPA)**
- **Extremely Economical**

General Information

ProClean™ is a mild circuit cleaner made from a unique blend of pure alcohols. Safe for components, it cleans thoroughly and easily. People-safe ProClean is a great, affordable choice.

About the Product

A combination of three ultra-pure alcohols, ProClean is a mild, plastic-safe, low-cost defluxer. Because it

is a mixture of alcohols and they are ultra-pure — double-filtered and with less than 1% water – ProClean delivers unexpectedly strong cleaning. (Many alcohol cleaners are 30% water, which lowers costs but weakens the solvent.) ProClean also is 100% volatile, so rinsing is never required.

ProClean works well on rosin fluxes, synthetic fluxes and most “no-cleans” but may not be strong enough for lead-free materials. It easily dissolves most flux residues, solder pastes, organic residues and oils. Non-corrosive and ESD-safe, ProClean is compatible with all materials and substrates and is used on stencils, components, boards, displays, cables and connectors.

Importantly, ProClean is Trigger Grip™ compatible (see photo), which generally doubles the life of the aerosol by eliminating wasteful over-spray. ProClean also is available in a presaturated wipe, containing 100 sheets of lint-free polyester fabric. The hermetically-sealed tub has an industry-leading shelf life, and the self-closing lid keeps the wipes damp during use. Money-saving refills lower replacement costs 25% or more.

Made from renewable resources, ProClean is biodegradable, ozone-safe and a modern choice for today’s advanced circuit boards.



Technical Details

Chemical Family	Traditional Alcohols
Appearance	Clear Colorless Liquid
Aroma	Characteristic Alcohol
Boiling Point	77°C / 173° F
Military Approvals	MIL-STD-2000, WS-6536, MIL-P-28809, MIL-S-45743, MIL-P-46843

Solvency & Cleaning Data

Cleaning Strength (K _b)	45 (est)
Specific Gravity (@ 25°C)	0.79
Surface Tension (dynes/cm)	23
Percent Volatile	100%
Vapor Density (Air=1)	1.82
Evaporation Rate (Ether = 1)	<1
Water Content	<400 ppm

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-Hr. TWA, PEL)	See MSDS
Flashpoint (TCC)	12°C / 53°F
Safety Rating	Flammable
NFPA	Health: 1; Fire: 3; Reactivity: 1
Ozone Impact	Zero
Organic Content (g/L)	785
RoHS and WEEE Compliant	Yes
SNAP Approved	Not applicable

Packaging

Aerosol	12 oz./340 g	MCC-PRO
Aerosol with Brush	12 oz./340 g	MCC-PRO126
Presat. Wipes	30 oz./ 840 g	MCC-PROW
Presat. Wipe Refill	30 oz./ 840 g	MCC-PROWR
Minicube	6 lbs./2.72 k	MCC-PROG
Cubitainer	32 lbs./14.51 k	MCC-PROP
Drum	355 lbs./161.4 k	MCC-PROD

The aerosol cans are packaged in cases of twelve (12) cans per box. The presat wipes are packaged in cases of twelve (12) tubs per box. The presat refills also are 12 units/box, but include one brand-new empty presat tub. The presat wipes have a one-year shelf life; all other packages have an unlimited shelf life.

Related Products

ProClean is not suited for use in heated cleaning systems. For vapor degreaser applications, **Flux Remover C** is the best choice. For heated dip tanks, MicroCare’s **Reflow Oven Cleaner** or the popular **BGA Stencil Cleaner** are excellent options.

Product Notes

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IsoClean™

Ultra-Pure Isopropyl Alcohol Delivers Superior Cleaning at an Affordable Price



IsoClean™ is pure isopropyl alcohol, the benchmark for general electronics cleaning

- Versatile Defluxer & Circuit Cleaner
- Speedy Stencil Cleaner
- Familiar Handling
- Plastic-Safe
- Mil-Spec Approved
- Very Affordable

General Information

IsoClean™ is an alcohol-based circuit cleaner. Mild and inexpensive, it cleans easily, quickly and safely. For affordable and effective cold cleaning which will never harm components, IsoClean is an excellent choice.

About The Product

IsoClean is a modest, affordably-priced cleaner for fluxes, pastes, light oils and grease, plus organic residues, ionic deposits and oils. Noncorrosive and ESD-safe, it is most often used as circuit cleaner, a stencil cleaner, and as cleaner for video- and audio-recording systems.

Based on isopropyl alcohol (IPA), IsoClean is made from only the cleanest "anhydrous" grade of IPA. Whereas many IPA-based cleaners contain up to 30% water, which is cheaper, IsoClean is virtually water-free so it's surprisingly strong. In addition, the cleaner is undiluted by airborne humidity. This makes IsoClean an excellent cleaning choice.

100% volatile, IsoClean evaporates cleanly and rinsing is never required. IsoClean is safe on all of the materials found in today's electronics, including components, connectors, cables and elastomers. It is an excellent choice for repair depots where a wide variety of components and materials are found.

Importantly, IsoClean is Trigger Grip™ compatible, which generally doubles the life of the aerosol can by eliminating wasteful overspray during cleaning. Completely ozone-safe and low in global warming impact, IsoClean is gentle on the planet. The cleaner is regulated as a Volatile Organic Compound (VOC); check local regulations for details.



Technical Details

Appearance	Clear, Colorless Liquid
Aroma	Characteristic Alcohol
Boiling Point	77°C / 173°F
Military Approvals	MIL-STD-2000A, WS-6536, MIL-P-28809, MIL-S-45743, MIL-P-46843

Solvency & Cleaning Data

Cleaning Strength (K _b Value)	n/a
Specific Gravity (@ 25°C)	0.79
Percent Volatile	100%
Evaporation Rate (Ether = 1)	<1
Water Content	<200 ppm

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8 hr., TWA, AEL)	400
Flashpoint (TCC)	12°C / 53°F
Safety Rating	Flammable
NFPA	Health:1; Fire: 3; Reactivity: 1
Ozone Impact	Zero
Organic Content (g/L)	785
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

Packaging

Aerosol	12 oz./340 g	MCC-BAC
Pump Spray	12 oz./340 g	MCC-BAC16
Minicube	6 lbs./2.72 kg	MCC-BACG
Cubitainer	32 lbs./14.5 kg	MCC-4724
Drum	355 lbs./161.0 k	MCC-4725

The shelf life is unlimited for these products. The aerosol product is packaged in cases of twelve (12) aerosols per box, but the pump spray product, MCC-BAC16, is packaged 24 pump sprays/case. Unlike other MicroCare pump sprays, this product does not ship with any flat wipes.

Related Products

For faster drying, **VeriClean™** is an excellent choice. For stronger cleaning, **PowerClean™ II** is best. Lint-free wipes are recommended for us with slower-drying IsoClean™.

Product Notes

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Micro•Freeze™ & Micro•Blast™

Anti-Stat Micro•Freeze™ — Micro•Blast™ Canned Air
 Big•Blast™ Canned Air — Mini•Blast™ Canned Air



General Information

These products are ozone-safe drop-in replacements for old-style freeze sprays and “canned air.” The freeze sprays offer instant chilling and the canned air products deliver vigorous pressure. These are excellent choices for testing and repairing electronics; all are completely ozone-safe.

Freeze Sprays

Both Micro•Freeze products deliver instant chilling without CFCs, HCFCs, compressed air or venturi systems. Both exceed the mil specs of -40°C/-40°F and may chill to as low as -60°C/-76°F under optimal conditions. Neither choice will leave residues, attack plastics or generate component-shattering thermal shock. The Anti-Stat Micro•Freeze is identical to Micro•Freeze, but includes a static-dissipative additive that evaporates in about sixty seconds.

Canned Air

The “canned air” products deliver about 100 psi/7 bar of pressure directly on to the component. Big•Blast uses an economical, jumbo-size container of 392 grams. Both are equipped with the latest in high-pressure valves which allow the inert propellant to generate enormous “pushing power”, but StatZAP™ valves are available for better ESD control.

Health & Safety

All of these products are ozone-safe, inert chemically and very safe for people. Noncorrosive and plastic-safe, they can be used on all electronic assemblies. Unlike less expensive products, none of these are flammable.



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Product Details

Chemical Family	Hydrofluorocarbon
Aroma	Slight, ethereal
Boiling Point	-26° C / -16° F
Evaporation Rate	Instant
Vapor Pressure @ 20°C	96 PSIA

Micro•Freeze will deliver circuit chilling to as low as -40°C/-40°F under all conditions and as low as -60°C/-76°F under optimal conditions with a skilled operator.

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-hr. TWA, TLV)	1000
Flashpoint (TCC)	None
Safety Rating	Nonflammable
NFPA	Health: 1; Fire: 0; Reactivity: 1
Primary Ingredient	HFC-134a
Ozone Impact	Zero
Organic Content (g/L)	MCC-FRZA 12 All others 0
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

Packaging

Micro•Freeze™ Freeze Spray	284 g	MCC-FRZ*
Micro•Freeze™ Anti-Stat	284 g	MCC-FRZA*
Mini•Blast™ Tool-kit Size	85 g	MCC-DSTS*
Micro•Blast™, High-Flo Valve	284 g	MCC-DST
Micro•Blast™, StatZap™ Valve	284 g	MCC-DSTZ*
Big•Blast™, High-Flo Valve	392 g	MCC-AIR
Big•Blast™, StatZap™ Valve, European Label	392 g	MCC-DAIRZ*

Packaged in cases of twelve (12) cans per box. Shelf life is unlimited.

Related Products

MicroCare strongly recommends the StatZAP™ dispenser, #MCC-ZAP, with these products because it minimizes the risk of ESD damage. Products tagged with an asterisk are StatZAP™ compatible.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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MicroCare



Axarel® 2200

A Powerful, Proven Choice for Benchtop Cleaning and Stencil Printing



One of MicroCare's most mature products, Axarel® 2200 has been a reliable, cost-effective circuit cleaner for two decades

- **Versatile — a Defluxer, Degreaser & Stencil Cleaner All in One**
- **Highly Effective on Lead-Free Fluxes & Pastes**
- **Low-Surface Tension for Better Cleaning under Tight Chips**
- **Plastic-Safe & Residue-Free**

General Information

Axarel® 2200 is a proven benchtop defluxer and stencil cleaner that has been satisfying customers for almost two decades. A versatile, powerful choice, Axarel 2200 is convenient, easy to use and safe for the environment.

About the Product

Blended from aliphatic hydrocarbons, Axarel 2200 is an ozone-safe defluxer specifically designed for precision cold cleaning. Many times stronger than alcohol, Axarel works well on both leaded and lead-free materials. Both organic and ionic residues are easy targets for Axarel.

Technical Details

Chemical Family	Mixed Hydrocarbon
Appearance	Clear Colorless Liquid
Aroma	Slight, Sweet Alcohol
Boiling Point	149°C / 300°F

Solvency & Cleaning Data

Cleaning Strength (K _b)	115 (est)
Specific Gravity (@ 25°C)	0.82
Surface Tension (dynes/cm)	17
Percent Volatile	100%
Evaporation Rate (Butyl Acetate = 1)	0.32

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-hr. TWA, AEL)	100
Flashpoint (TCC)	44°C / 111°F
Safety Rating	Combustible
NFPA	Health: 1; Fire: 2; Reactivity: 0
Ozone Impact	Zero
Organic Content (g/L)	785
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

Packaging

Aerosol	10 oz./284 g	MCC-AXL
Minipail	6 lbs./2.72 k	MCC-AXLG
Pail	35 lbs./15.87 k	MCC-AXLP
Drum	365 lbs./165.9 k	MCC-AXLD

The aerosol cans are packaged in cases of twelve (12) cans per box. All Axarel products have an unlimited shelf life.

Related Products

MicroCare strongly recommends the Trigger Grip™ dispenser, #MCC-ESD, with our aerosol cleaners because it speeds cleaning and reduces solvent waste. For plastic-safe cleaning, **VeriClean™** is a fast-drying alternative to Axarel. For stencil cleaning, **BGA Stencil Cleaner** is a nonflammable choice. For presaturated cleaning, the **ExPoxy™ Remover Presaturated Wipes** are the best choice for cleaning stencils and misprints. Axarel is not suited for use in heated cleaning systems. For those applications, **Flux Remover C** is the best choice. Contact MicroCare for details.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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It dissolves all the common contamination and can be used safely on stencils, PCBs, hybrids, connectors, components, elastomers, wiring and housings. It serves double-duty as a degreaser, so it is a great choice for repair depots.

One of the most popular uses of Axarel is for cleaning stencils, misprints and production equipment. It is a fine solvent choice for inside an automated stencil printer, and will not harm the stencils, webbing or printers. In general, it is safe on most components, FR-4, epoxies, nylon, polyethylene, polypropylene and PVC, but it may soften some soft plastics. Test before deployment.

Axarel dries more slowly than alcohol which minimizes consumption and saves money. It also is Trigger Grip™ compatible, which generally doubles the life of the aerosol can, effectively making it half the price of competing cleaners. It is ozone-safe and has a short atmospheric life. All of this makes Axarel a superior choice for most benchtop and stencil cleaning applications.



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MicroCare





VeriClean™

Fast, Reliable Cleaning With the Industry's Most Universal Solvent



VeriClean™ is a medium-strength circuit cleaner with exceptional safety characteristics

- **Speedy, Easy Defluxing and Circuit Cleaning**
- **Fast-Drying, Low Aroma**
- **Easily Removes Silicone Coatings & Glues**
- **Ozone-Safe, Low VOC and Low GWP**
- **Exceptional Safety Ratings**

General Information

VeriClean™ is a moderately aggressive defluxer that removes a wide variety of contaminants quickly and safely. With excellent environmental properties and a very affordable price, VeriClean is a popular choice world-wide.

About the Product

VeriClean is the industry's only circuit cleaner based on ultra-pure siloxanes. This makes it a highly effective defluxer, degreaser and general purpose cleaner. Versatile, residue-free VeriClean is used on fluxes, pastes, organic residues, ionics, silicone-based conformal coatings, adhesives, grease and oils. It is ideal for cleaning thru-hole, BGA and SMT designs, and rinsing residues from connectors.

In side-by-side tests, VeriClean removed Alpha 5003 rosin flux in 1/3rd the time of other solvents. It also dissolves silicone conformal coatings, silicone adhesives and temporarily swells silicone tubing.

VeriClean is safe on all components. It is considered a "universal" cleaner that will not harm any substrate, material, connector or chip (except silicones), so it is popular in repair depots where the widest variety of materials are found. VeriClean dries briskly, leaves no residues and is non-corrosive.

Based on chemistries widely used in cosmetics, VeriClean is uniquely safe for workers. It degrades quickly in the atmosphere so it does not contribute to low-altitude smog and is rated as "VOC exempt" in most areas (check local regulations for details). It is completely ozone-safe and has a very low global warming factor. VeriClean is a great choice for circuit boards and the planet.



Technical Details

Chemical Family	Methyl Siloxanes
Appearance	Crystal Clear Liquid
Aroma	Slight, ethereal
Boiling Point	98°C / 210°F

Solvency & Cleaning Data

Cleaning Strength (K _b Value)	17
Specific Gravity (@ 25°C)	0.77
Percent Volatile	100%
Surface Tension (dynes/cm)	16.3
Viscosity (cps)	0.49
Evaporation Rate (Ether = 1)	>1
Dielectric Constant	14.55

Health, Safety & Environmental Data

Exposure Limits (ppm, 8-Hr. TWA, AEL)	200
Flashpoint (TCC)	-4°C / 24°F
Safety Rating	Flammable
NFPA	Health: 1; Fire: 3; Reactivity: 0
Ozone Impact	Zero
Non-Exempt Organic Content (g/L)	87
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

Packaging

Aerosol	10 oz./284 g	MCC-DC1
Aerosol with Brush	10 oz./284 g	MCC-DC1106
Minipail	6 lbs./2.72 k	MCC-DC1G
Pail	32 lbs./14.5 k	MCC-DC1P
Drum	330 lbs./149.7 k	MCC-DC1D

The aerosols are packaged twelve (12) cans per box. Unlimited shelf life.

Related Products

MicroCare strongly recommends the Trigger Grip™ dispenser, #MCC-ESD, with our aerosol cleaners because it speeds cleaning and reduces solvent waste. For longer tack time, **ProClean™** is an alcohol-based choice. For more powerful or faster cleaning, **PowerClean™ II** is the best choice.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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MicroCare



ExPoxy™ Remover

A Powerful Stencil Wipe Choice for Removing Chip Bonder, Paste & Grease



ExPoxy™ Remover is an aggressive solvent for difficult stencil cleaning applications, such as fine-pitch or dense BGA designs

- **The Strongest Cleaner In Its Class**
- **Great on Lead-Free Pastes, Chip Bonders & Some Inks**
- **Proven Reliable in Stencil Printer Wetting Systems**
- **Plastic-Safe, Noncorrosive**

General Information

ExPoxy™ Remover has been an instant success since it was introduced a decade ago. Powerful and easy-to-use, it is your best choice for almost any difficult cleaning application.

Technical Details

Chemical Family	Alcoxypropanols
Appearance	Clear, Colorless Liquid
Aroma	Mild Alcohol
Boiling Point	248-302° F / 120-150°C

Solvency & Cleaning Data

Cleaning Strength (K _b)	90 (est)
Specific Gravity (@ 15°C)	0.88
Surface Tension (dynes/cm)	24.9
Evaporation Rate (Butyl Acetate = 1)	0.15

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-Hr TWA, PEL)	See MSDS
Flashpoint (TCC)	41° C / 106° F
Safety Rating	Combustible
NFPA	Health: 0; Fire: 2; Reactivity: 0
Ozone Impact	Zero
Organic Content (g/L)	890
RoHS and WEEE Compliant	Yes
SNAP Approved	Not applicable

Packaging

Presat Wipe	1.85 lb / 840 g	MCC-EPXW
Presat Wipe Refill	1.85 lb / 840 g	MCC-EPXWR
Minipail	6 lbs. / 2.72 k	MCC-EPXG
Pail	30 lbs. / 13.6 k	MCC-EPXP
Drum	392 lbs. / 177.8 k	MCC-EPXD

The presat wipes are packaged in cases of twelve (12) tubs per box. The presat refills also are 12 units/box, but include one brand-new empty presat tub. The presat wipes have a one-year shelf life; all other packages have an unlimited shelf life.

Related Products

For plastic-safe cleaning, **VeriClean™** is a faster-drying alternative to ExPoxy Remover. For stencil cleaning in dip tanks, the nonflammable **BGA Stencil Cleaner** is a better choice. For precision cleaning in vapor degreasers, **Flux Remover C** is the best choice. Contact MicroCare for more details on the technical issues.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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About the Product

The ExPoxy™ Remover is a powerful aliphatic hydrocarbon solvent designed for precision cold cleaning. Initially developed to remove uncured chip bonders, it has proven to be the most powerful and versatile solvent in its class. For example, it is the best hydrocarbon solvent for cleaning solder paste from stencils and misprinted boards. It also is the best choice for use in automatic stencil printers because the highly activated cleaner needs less solvent to perform this cleaning chore. This formulation has been tested and accepted by DEK, EKRA, MPM, and Panasonic for use in their stencil printers.

The ExPoxy™ Remover works well on leaded- and lead-free fluxes and pastes, water-soluble pastes and even "no-clean" products. Plastic-safe, residue-free and non-corrosive, ExPoxy™ Remover is safe on PCBs, stencils, components, connectors and tools.

Many engineers specify the ExPoxy™ Remover in the presaturated wipe for manually cleaning stencils and misprints during SMT production. The package features 100 sheets of a highly absorbent, lint-free, shred-resistant polyester fabric. The seamless plastic tub is hermetically sealed, so the wipes have a industry-leading shelf life. The tub also features a self-closing lid, so the wipes stay damp during use. Money-saving refills (see photo) minimize waste and lower replacement costs 25% or more.

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MicroCare



SuprClean™

Unleash Raw Cleaning Power to Lower Your Benchtop Cleaning Costs



SuprClean™ II is a nonflammable solvent for difficult cleaning applications, and now is available in two aerosol packages

- Strong Enough for Lead-Free Fluxes & Pastes
- Instant Drying and Low Aroma
- No Residues, No Rinsing
- Nonflammable in Any Package or Application
- Versatile — Both a Degreaser & Defluxer

General Information

SuprClean™ is a heavy-duty circuit cleaner and degreaser. This patented formulation offers superior results against the toughest contamination, while setting new standards for safety, stewardship and value.

Technical Details

Chemical Base	HFC and trans Near-Azeotrope
Appearance	Clear, Colorless Liquid
Aroma	Slight, Ethereal
Boiling Point	41°C / 106°F

Solvency & Cleaning Data

Cleaning Strength (K _b)	110
Specific Gravity (@ 25°C)	1.26
Percent Volatile	100%
Surface Tension (dynes/cm)	18.1
Evaporation (Ether = 1)	>1

Health, Safety & Environmental Data

Exposure Limit (ppm, 8-hr. TWA, AEL)	256-297 (calc.)
Safety Rating	Nonflammable
Flashpoint (TCC)	None
NFPA	Health: 1; Fire: 1; Reactivity: 1
Ozone Impact	Zero
Organic Content* (g/L)	939
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

Note: Test before prolonged use on urethanes, natural rubber, silicones, acrylics and polystyrene. * Includes only non-exempt VOC ingredients.

Packaging

Aerosol	12 oz. / 340 g	MCC-SPR
Aerosol plus Brush	12 oz. / 340 g	MCC-SPR126
Minipail	10 lbs. / 4.53 kg	MCC-SPRG
Pail	50 lbs. / 22.7 k	MCC-SPRP
Drum	500 lbs. / 226.8 k	MCC-SPRD

The aerosol products are packaged in cases of twelve (12) cans per box. The shelf life of all these products is unlimited.

Related Products

MicroCare strongly recommends the **Trigger Grip™** dispenser with our aerosol cleaners because it minimizes solvent consumption. For plastic-safe cleaning, **VeriClean™** is a fast-drying option. For stencils, **BGA Stencil Cleaner** is a better choice. For cleaning in vapor degreasers, **Flux Remover C** is best.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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About the Product

Engineered to be the electronics industry's most versatile precision cleaner, SuprClean is as effective as perc and 1,1,1-TCA but is without the environmental problems of those older products. It's powerful, dries instantly and has almost no aroma, so technicians prefer it for the toughest jobs, such as SMT defluxing, degreasing and removing conformal coatings. Because it is so versatile, it is an ideal choice for tough, lead-free solders and pastes.

SuprClean often is used on through-hole, SMT and BGA boards, hybrids and connectors, and as a heavy-duty degreaser. Its gets under tight-fitting BGA chips, dissolving flux residues and flushing them away. SuprClean also removes most acrylic and some urethane conformal coatings.

While SuprClean is safe on most components, epoxies, nylon, polyethylene, polypropylene and PVC, it may craze soft plastics like ABS, polystyrene and polycarbonates. Test before deployment.

Importantly, SuprClean is safer than competing choices because it remains nonflammable in any packaging. It also is Trigger Grip™ compatible (see photo), which generally doubles the life of the aerosol can, making SuprClean half the price of competing formulations.



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Flux Remover C

Nonflammable, Ozone-Safe Choice for the Benchtop & Heated Cleaning Systems



Flux Remover C is MicroCare's most popular aerosol cleaner, famous for its powerful cleaning and fast evaporation. It is the best choice to replace ozone-depleting HCFC-141b solvents

- **Powerful Defluxing and Degreasing**
- **Generally Plastic-Safe**
- **Nonflammable in Any Package and Application**
- **Best Choice for Cleaning in Vapor Degreasers**

General Information

Flux Remover C is the electronics industry's premier circuit cleaner. A superior defluxer, it is the best choice when both benchtop and bulk cleaning environments are used in the same facility. This versatility makes it the best replacement for HCFC-141b.

About the Product

Flux Remover C is MicroCare's most popular cleaner because it is

affordable, nonflammable, easy to use and safe to store. It features convenient handling, powerful cleaning, speedy drying and a very low aroma.

Suitable for all types of electronics, Flux Remover C can be used on through-hole, SMT and BGA boards, plus hybrids, cables and connectors. It is highly effective on no-clean fluxes, water-based fluxes, light oils, grease and inks. With a low surface tension and high density, this product gets under tight-fitting chips, flushing residues away. It can be used in heated cleaning systems.

Flux Remover C has a compatibility profile similar to HCFC-141b, so it is safe on components, epoxies, nylon, polyethylene, polypropylene and PVC, but may affect ABS, polystyrene and polycarbonates. Test before deployment.

With excellent health and safety ratings, Flux Remover C is safer than competing nonflammable choices because it remains nonflammable in any package. (Some aerosols need to be reformulated to remain nonflammable when sold in pails.)

Flux Remover C also is Trigger Grip™ compatible (see photo), which generally doubles the life of the aerosol can, eliminating waste and speeding cleaning.



Technical Details

Chemical Family	HFC Solvent Azeotrope
Appearance	Clear, Colorless Liquid
Aroma	Slight, Ethereal
Boiling Point	37°C / 99°F

Solvency & Cleaning Data

Cleaning Strength (K _b)	25
Specific Gravity (@ 25°C)	1.34
Percent Volatile	100%
Surface Tension (dynes/cm)	19.2
Evaporation (Ether = 1)	>1

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-Hr. TWA, PEL)	240 (calc.)
Flashpoint (TCC)	None
Safety Rating	Nonflammable
NFPA	Health: 1; Fire: 0; Reactivity: 1
Ozone Impact	Zero
Organic Content* (g/L)	590
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

Note: Test before prolonged use on urethanes, natural rubber, silicones, acrylics and polystyrene. * Includes only non-exempt VOC ingredients.

Packaging

TravelSAFE™ mini-pump 3 oz. / 85 g	MCC-FRCS
Aerosol 10 oz. / 300 g	MCC-FRC
Aerosol with Brush 10 oz. / 300 g	MCC-FRC106
Pump Spray 10 oz. / 300 g	MCC-FRCNA
Minipail 10 lbs. / 4.53 k	MCC-FRCG
Pail 50 lbs. / 22.7 k	MCC-FRCP
Drum 500 lbs. / 226.8 k	MCC-FRCD

The aerosols and mini-pump cans are packaged in cases of twelve (12) cans per box. All of these packages have an unlimited shelf life.

Related Products

MicroCare strongly recommends the Trigger Grip™ dispenser, #MCC-ESD, with our aerosol cleaners because it speeds cleaning and reduces solvent waste.

Product Notes

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Heavy Duty Degreaser C

Easy, Instant Cleaning of Organics with This Popular Choice



This Degreaser is an aggressive but affordable solvent, designed to replace old-style ozone-depleting solvents

- Superior Materials Compatibility
- Instant Drying, No Residues
- Powerful — Low Surface Tension and High Density Lifts Soils Away
- Nonflammable in Any Package and Use for Maximum Safety

General Information

Heavy Duty Degreaser C is a powerful degreaser based on patented technology from DuPont. This innovative formulation offers affordable, high-performance cleaning and is an excellent replacement for ozone-depleting HCFC-141b.

About the Product

Engineered as an affordable, powerful and nonflammable precision cleaner, Heavy Duty Degreaser C has been optimized for the removal of oil and grease.

Suitable on all types of metals, ceramics, glass, substrates and durable plastics,

Heavy Duty Degreaser C is an excellent choice for semiconductors, disk drives, gyroscopes, medical devices and any other application in which reliability and performance are crucial parameters. The product easily removes most oils, light grease, and lubricants, plus most coatings based on acrylics and silicones. It is generally safe on metal, glass, ceramics, most electronic components, epoxies, nylon, polyethylene, polypropylene and PVC, but may craze soft plastics like ABS, polystyrene and polycarbonates. Test before deployment. The cleaner generally is not suited for fluxes, inks and paints.

Noncorrosive, Heavy Duty Degreaser C dries almost instantly. It has excellent health and safety ratings and is suitable for use in heated cleaning systems such as vapor degreasers. This means it is safer than other choices because it remains nonflammable in any package or application. (Some aerosols must be reformulated to remain nonflammable in bulk.)

This cleaner can be used with the Trigger Grip™ dispenser, which generally doubles the life of the can by eliminating wasteful overspray. The product is completely ozone-safe, has a low global warming impact and a moderate VOC content.



Technical Details

Chemical Family	HFC Solvent Azeotrope
Appearance	Clear, Colorless Liquid
Aroma	Slight, Ethereal
Boiling Point	37°C / 99°F

Solvency & Cleaning Data

Cleaning Strength (K _b)	22
Specific Gravity (@ 25°C)	1.34
Percent Volatile	100%
Surface Tension (dynes/cm)	18.8
Evaporation (Ether = 1)	>1

Health, Safety & Environmental Data

Exposure Limits (ppm, 8-Hr. TWA, PEL)	See MSDS
Flashpoint (TCC)	None
Safety Rating	Nonflammable
NFPA	Health: 1; Fire: 0; Reactivity: 1
Ozone Impact	Zero
Organic Content* (g/L)	519
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

This product has been tested on a wide variety of substrates. No major incompatibilities were observed. Test before prolonged use on urethanes, natural rubber, silicones, acrylics and polystyrene. * Includes only non-exempt VOC ingredients.

Packaging

TravelSAFE™ mini-pump	3 oz. / 85 g	MCC-HDCS
Aerosol	10 oz. / 300 g	MCC-HDC
Minipail	10 lbs. / 4.53 k	MCC-HDCG
Pail	50 lbs. / 22.7 k	MCC-HDCP
Drum	500 lbs. / 226.8 k	MCC-HDCD

The aerosol and mini-pump cans are packaged in cases of twelve (12) cans per box. All of these packages have an unlimited shelf life.

Related Products

For general degreasing in dip tanks, the nonflammable **BGA Stencil Cleaner** is a very good choice. For general purpose surface cleaning, try the **Plastic, Metal and Glass Cleaner** from MicroCare. Flat surfaces can be wiped clean with the **Economy Wipes**, a tub of presaturated alcohol wipes. Lastly, for stronger cleaning, test the **PowerClean™ II** degreaser/defluxer.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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MicroCare



Contact Cleaner C

Universal Cleaner Rinses Away Dust, Fibers, Light Oils & Grime



Contact Cleaner C is a mild, nonflammable solvent designed to flush dust, lint and light oils from hard-to-reach locations

- **Convenient Cleaning for Those Hard-to-Reach Places**
- **Fast Drying**
- **No Aroma**
- **No Residues**
- **“Do No Harm” Compatibility**

General Information

Contact Cleaner C is a mild, non-conductive general purpose electronics cleaner. Based on new solvent technology from DuPont, Contact Cleaner C sets new standards for cleaning, safety, environmental stewardship and cost-effectiveness.

About the Product

Contact Cleaner C is a versatile precision cleaner designed to be safely used on high-voltage systems, cable harnesses, punch-down blocks, power supplies, junction boxes, coax cables, and electronic systems which have been powered-down. A mild

cleaner, it has been optimized for the balance between cleaning effectiveness and maximum safety. After all, it's important to clean, but it's even more important to do no harm to either people or the electronics. So this cleaner is nonflammable and nonconductive, and if accidentally sprayed on operating electronics it will do no harm.

The cleaner dries instantly and is completely safe on soft plastics, rubber and elastomers; it even can safely clean computer screens, CDs and DVDs. This makes Contact Cleaner C ideal for awkward cleaning applications, such as rinsing grit from hot motors, dust from inside electromechanical relays, and removing light oils from machinery, keyboards and other electrical devices. It leaves no residues and is noncorrosive.

This product is completely ozone-safe, has a low global warming impact and is 100% VOC-exempt. Importantly, it also is Trigger Grip™ compatible which generally doubles the life of the aerosol can, by eliminating wasteful overspray. Easy to handle and safe to use, Contact Cleaner C is a superior choice.



Technical Details

Chemical Family	HFC Solvent Azeotrope
Appearance	Clear, Colorless Liquid
Aroma	Slight, Ethereal
Boiling Point	44°C / 111°F

Solvency & Cleaning Data

Cleaning Strength (K _b)	18
Specific Gravity (@ 25°C)	1.49
Percent Volatile	100%
Surface Tension (dynes/cm)	17.0
Viscosity (cps)	0.63
Evaporation (Ether = 1)	>1

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-Hr. TWA, AEL)	See MSDS
Flashpoint (TCC)	None
Safety Rating	Nonflammable
NFPA	Health: 1; Fire: 0; Reactivity: 1
Ozone Impact	Zero
Organic Content* (g/L)	0
RoHS and WEEE Compliant	Yes
SNAP Approved	Yes

* Includes only non-exempt VOC ingredients.

Packaging

TravelSAFE™ mini-pump	3 oz. / 85 g	MCC-CCCS
Aerosol	10 oz. / 300 g	MCC-CCC
Minipail	10 lbs. / 4.54 k	MCC-CCCG
Pail	50 lbs. / 22.7 k	MCC-CCCP
Drum	550 lbs. / 249.5 k	MCC-CCCD

All aerosols and mini-pump cans are packaged in cases of twelve (12) cans per box. All these packages have an unlimited shelf life.

Related Products

MicroCare strongly recommends the Trigger Grip™ dispenser, #MCC-ESD, with our aerosol cleaners because it speeds cleaning and reduces solvent waste. For general degreasing in dip tanks, the nonflammable **BGA Stencil Cleaner** is a more cost-effective choice.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Contact your local distributor at www.MicroCare.com for details.

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