

Technical Specification

ProClean™ EU Formulation!New

Sophisticated Cleaning from Reliable Chemistries Enhanced with the World's Newest, Environmentally-Progressive Propellant



ProClean™ and the money-saving Trigger Grip deliver high-quality, plastic-safe cleaning and easy handling with superior environmental characteristics

- More Powerful than Ordinary Alcohol
- Superior Results on Fluxes & Pastes
- Versatile: a Defluxer, a Stencil Cleaner and Degreaser All in One
- REACH and ELINCS Pre-Registered
- Complies with F-Gas Regulations
- Familiar Handling and Aroma

General Information

ProClean™ EU is a mild circuit cleaner made

from a unique blend of pure alcohols. Available only in Europe, ProClean EU is a special blend of this best-seller that uses a new propellant for reduced global warming impact.

About the Product

ProClean™ EU is a mixture of three ultra-pure alcohols, double-filtered and containing less than1% water. This means ProClean delivers much stronger cleaning than other alcohol-based solvents. ProClean easily dissolves flux residues, pastes, organics, light oils and some inks. Because it dries more slowly than other MicroCare cleaners, it also is suitable for cleaning stencils and light degreasing. While it works well on rosin fluxes, synthetic fluxes and most "no-cleans" it may not be strong enough for reflowed lead-free materials.

Non-corrosive and ESD-safe, the cleaner is compatible with all materials and substrates and is safe on PCBs, hybrids, coonectors, components, boards, displays, cables and stencils. ProClean is a recommended for cleaning all types of electronics, components and assemblies. Rinsing is never required.

This is one of the first electronics cleaners to feature tetrafluoropropene as the propellant (see "Packaging" notes). By switching to this HFO propellant,

ProClean EU helps companies meet the new EU rules to minimize global warming (the "F-Gas rules").

ProClean EU is affordably priced and is Trigger Grip[™] compatible for maximum economy. Now linked with a low GWP propellant, ProClean EU is a planet-friendly choice for today's advanced circuit boards.



Technical Details

Chemical Family	Traditional Alcohols with
-	New HFO Propellant
Appearance	Clear Colorless Liquid
Aroma	Characteristic Alcohol
Boiling Point	77°C / 173° F
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Solvency & Cleaning Data

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Cleaning Strength (K _b)	45 (est)	
Specific Gravity (@ 25°C)	Ò.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 Cafety 9 Environmental Date		

Health, Safety & Environmental Data

Toxicity Rating (ppm, 8-Hr. TWA, PEL) See MSDS Flashpoint (TCC) 12°C / 53°F Safety Rating Flammable NFPA Ratings Health: 1; Fire: 3; Reactivity: 1 Zero Ozone Impact Non-Exempt Organic Content (g/L) 785 REACH & ELINCS Pre-Registered (See MSDS) Yes RoHS and WEEE Compliant Yes F-Gas Compliant Yes

Packaging

Aerosol (Europe only) 12 oz./340 g MCC-PRO127 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 32 lbs./14.51 k Cubitainer MCC-PROP Drum 355 lbs./161.4 k MCC-PROD Also available with the older HFC propellant: Aerosol (Europe only) 12 oz./340 g MCC-PRO101 Aerosol with Brush 12 oz./340 g MCC-PRO126

The aerosols are packaged twelve (12) cans per box. Unlimited shelf life. The propellant in #MCC-PRO127 is one of the first F-gas compliant products, HFO tetrafluoropropene (CAS #1645-83-6; ELINCS #471-480-0). Tetrafluoropropene is a drop-in replacement for HFC-134a (industry's standard propellant). It has a global warming impact of six, as opposed to 1,400 for HFC-134a, and an atmospheric life of only two weeks, unlike 14 years for HFC-134a. The tetrafluoropropene formulation is protected under patent-pending status in the U.S.

Product Notes

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

TRADEMARKS. "MicroCare" and the MicroCare logo are registered trademarks of MicroCare Corp. "ProClean $^{\text{TM}}$ " is a trademark of MicroCare. The Trigger Grip system is protected under various U.S. patents.

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