

Technical Specification

VeriClean™ EU Formulation!New

Fast, Reliable Cleaning With the Industry's Most Innovative Defluxer



VeriClean™ is a medium-strength defluxer with exceptional safety and environmental characteristics

- Speedy, Easy Defluxing & Degreasing
- REACH and ELINCS Pre-Registered
- Featuring New, Low GWP Propellant
- Complies with New F-Gas Regulations
- Ozone-Safe, Low VOCs
- Exceptional Safety Ratings

General Information

VeriClean™ EU is a moderately aggressive defluxer that removes flux residues quickly and safely. Currently available only in Europe, VeriClean™ EU features a new HFO propellant that reduces the global warming impact of the product to the lowest possible levels.

About the Product

VeriClean EU is a new formulation of MicroCare's most popular circuit cleaner. Based on siloxanes, it is highly effective on no-clean and rosin-based fluxes and pastes, ionic contamination, light grease and oils, plus some inks and adhesives. It is ideal for cleaning thru-hole, SMT and even BGA circuits; it can also be used on mechanical devices, housings, glass, and precision assemblies. It also removes silicone conformal coatings and swells silicone tubing. Other than silicones, it is safe on all components, substrates, materials, connectors or chips which makes it a favorite choice in repair depots, where the widest variety of substrates and plastics are found.

Based on chemistries widely used in cosmetics, non-corrosive and ESD-safe VeriClean has a very low aroma and an excellent toxicity profile, so it's safe to handle and use. The cleaner is flammable—with characteristics similar to alcohol—so normal precautions for handling flammable liquids should be followed. VeriClean dries briskly, leaves no residues and is non-corrosive.

Siloxanes also are very gentle on the environment and breakdown in as little as two weeks. But VeriClean EU goes farther, as it is the first defluxer to feature tetrafluoropropene as the propellant (see "Packaging" notes). This innovation means VeriClean EU is in compliance with the new EU regulations to minimize global warming (the "F-Gas rules"). VeriClean EU may qualify as the "greenest" defluxer on the market.

Highly effective and affordable while being safe for people and the planet, VeriClean EU is a great choice for circuit board assembly, rework and repair.



Technical Details

Chemical Family	Methyl Siloxane Solvent with New HFO Propellant
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 Ratings	Health: 1; Fire: 3; Reactivity: 0
Ozone Impact	Zero
Non-Exempt Organic Content (g/L)	87
REACH & ELINCS Pre-Registered (See MSDS)	Yes
RoHS and WEEE Compliant	Yes
F-Gas Compliant	Yes

Packaging

Aerosol (Europe only)	10 oz./284 g	MCC-DC1107
Minipail	6 lbs./2.72 k	MCC-DC1G
Pail	32 lbs./14.5 k	MCC-DC1P
Drum	330 lbs./149.7 k	MCC-DC1D

Also available with the original HFC propellant:

Aerosol (Europe only)	10 oz./284 g	MCC-DC1101
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The aerosols are packaged twelve (12) cans per box. Unlimited shelf life. The propellant in #MCC-DC1107 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.

MicroCare strongly recommends using the Trigger Grip™ dispenser (shown in the photo, #MCC-ESD) because it speeds cleaning and reduces solvent waste.

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. "VeriClean™" is a trademark of MicroCare. The Trigger Grip system is protected under various U.S. patents. The VeriClean solvent is protected under US patent #5,478,493.

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