BIOACT® SC-10E

Non-Aqueous Cleaner

DESCRIPTION

BIOACT SC-10E Cleaner is a mixture of organic solvents designed especially for non-aqueous cleaning applications. **BIOACT SC-10E** effectively removes most types of raw solder paste residues uncured SMD adhesives and polymer solder pastes from stencils and misprinted assemblies. It is also effective on post soldering flux residues and other organic contaminants associated with printed circuit board assembly. The product will evaporate completely with minimal odor. No water rinse is required.

BIOACT SC-10E Cleaner is a specially formulated mixture of organic solvents which combines high solvency with fast evaporation relative to its high flash point (126 °F / 52 °C). The product is non-ozone depleting. It works best when used in suitable non-aqueous equipment such as the Electrovert "SabreMax" Stencil Cleaner.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Effective cleaner at ambient temperature. Ideal for stencil cleaning and non-aqueous batch cleaning.
- High solvency of solder paste residues. Reduces process time.
- High flux loading capacity. Longer bath life.
- Non-corrosive. Compatible with most stencil and PWA materials of construction.
- Fast evaporation. Reduces process time. No water rinse required.
- Effective in a wide range of applications. Reduces the number of chemicals required in a facility.

*** BIOACT is a registered trademark of Petroferm Inc.**

APPLICATION GUIDELINES

Uses - BIOACT SC-10E is suitable in the following applications:

Stencil Cleaning	Removes Raw Solder Paste, Uncured SMD Adhesives and Polymer Solder Pastes
Finger Cleaning	Fluxes Used in Wave Soldering
Pallet Cleaning	Fluxes Used in Wave Soldering
Benchtop / Rework Cleaning	Removes Flux Residues
Post-Soldering Cleaning	Removes Flux Residues (Wave Solder & Reflow)
General Purpose Cleaning	Equipment / Area Clean-Up
Cold Cleaning – Vapor Degreaser	
Conformal Coat Removal	Removes Most Silicone and Acrylic Conformal Coatings (Cured and Uncured)

Process (Stencil/PWA Cleaning) - BIOACT SC-10E Cleaner is used at ambient temperatures to dissolve raw solder paste residues, uncured SMD adhesives, flux residues, tape residues and other oily contaminants such as fingerprints. After cleaning, stencils or assemblies can be dried by evaporation or solvent displacement with forced air (no water rinse is required). If additional cleanliness is needed, stencils or assemblies may be rinsed with a secondary BIOACT SC-10E rinse. Bath life will depend on stencil cleanliness requirements. For PWA cleaning, refractive index and/or specific gravity can be used to determine rosin loading in the cleaning solution (contact Petroferm for more information). In both stencil and PWA cleaning, the use of a secondary rinse generally will allow for longer utilization of the initial BIOACT SC-10E wash bath.

Equipment - BIOACT SC-10E Cleaner is suited for use in appropriately designed non-aqueous equipment. (As a general guideline, BIOACT SC-10E is suitable for use in most equipment which is designed to handle IPA.) This includes batch equipment by Martin Marietta (Jet Clean), ECD, EMC and Austin American. In addition, BIOACT SC-10E Cleaner can be recovered by batch vacuum distillation. Contact Petroferm or Alpha for recommendations on both equipment applications.

Materials Compatibility - The effect of BIOACT SC-10E Cleaner on solder paste stencils, printed wiring assemblies, electronic components and markings is comparable to that of traditional halogenated and alcohol cleaning solvents. Safe for epoxies, flex laminates and other cross-linked polymers, such as cured solder mask. Sensitive materials such as RTV silicone, polystyrene, polyurethane and some polycarbonates may be attacked after prolonged exposure to the liquid.

Disposal - When it has been determined that the BIOACT SC-10E bath is no longer useful, the solution can be disposed of through fuel blending. The cost of fuel blending BIOACT SC-10E is determined by fuel volume, water content and solids content. Heavy metal content should be analyzed to see if the BIOACT SC-10E waste is potentially a hazardous waste. Laidlaw Environmental Service, Ashland Chemical Environmental Service or other reputable waste hauling and disposal companies are recommended.

TECHNICAL DATA

Physical Properties	Typical Value
Appearance	Colorless to Yellow Cast Liquid
Odor	Mild Citrus / Alcohol
Specific Gravity (@ 25 °C)	0.80 ± 0.01
Flash Point (PMCC)	52°C (126°F)
Boiling Point	>149°C (>302°F)
Vapor Pressure (mmHg @ 20 °C)	>1
Vapor Density	>1

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at MacdermidAlpha.com/assembly-solutions/knowledge-base**

STORAGE

BIOACT SC-10E is available in bulk liquid, 1, 5 and 55 gallon containers. When shipped by ground or air transportation, it is considered a "flammable liquid" according to U.S. DOT and IATA regulations. When stored, it is considered a Class II combustible liquid according to current NFPA regulations. BIOACT SC-10E has a shelf life of 18 months from date of manufacture.

CONTACT INFORMATION

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

www.macdermidalpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588