



Technical Data Sheet

BIOACT^{®*} SC-10E Cleaner

For Stencil/Misprint Cleaning

Description BIOACT SC-10E Cleaner is a fast-acting, mild odor cleaning agent developed for removing all types of solder paste, including new epoxy paste, and uncured SMD adhesives from stencils and misprinted assemblies. 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.

SC-10E Cleaner is ideal for customers who want to (1) improve cleaning of uncured SMD adhesive from stencils and misprints, (2) clean several different types of solder pastes and uncured SMD adhesives in one process, and/or (3) clean stencils and misprints.

Typical Properties

Table 1.

Appearance	Colorless to light yellow liquid
Flash Point (Pensky-Martens Closed Cup)	126°F (52°C)
Specific Gravity @ 25°C	0.85 ± 0.01
Volatiles, % by weight	100%
Vapor Pressure @ 20°C	2 mm Hg
Boiling Point	>302°F (>149°C)
Odor	Mild citrus/alcohol

Environmental and Regulatory

Table 2.

Ozone Depletion Potential	Zero
Global Warming Potential	Essentially zero
SNAP	Approved
HAP	No
NESHAP	Not regulated
SARA	Not regulated
RCRA	Not regulated

*BIOACT is a registered trademark of Petroferm Inc.

Applications BIOACT SC-10E Cleaner is used to remove raw solder pastes and uncured SMD adhesives from stencils and misprinted assemblies. Typical applications include:

Stencil/Misprint Assembly Cleaning	Miscellaneous
Rosin solder paste Water-soluble solder paste No-clean solder paste Epoxy solder paste SMD adhesives	Uncured encapsulants Acrylic conformal coatings

Process BIOACT SC-10E Cleaner is used as a concentrate in suitable stencil cleaning equipment. Apply BIOACT SC-10E Cleaner at ambient temperatures (<115°F, 46°C) to stencils and/or assemblies to dissolve raw solder and epoxy paste residues, uncured SMD adhesives, and conformal coatings. Typical cleaning times are 3 to 7 minutes. **No water rinse is required.** Misprinted assemblies should be rinsed with clean BIOACT SC-10E, water or IPA to ensure cleanliness before reprinting.

Bath Life After normal use, the BIOACT SC-10E bath will become contaminated or "loaded" with solids from solder paste and/or SMD adhesive residues. As loading increases, cleaning performance decreases. Either an oily film or visible solids will be left behind on the stencil after drying indicating the bath has lost its cleaning effectiveness. Depending on the amount of paste or adhesive being cleaned from stencils and misprints, the typical bath life for BIOACT SC-10E Cleaner ranges from 2 weeks to 8 weeks.

Bath Disposal Petroferm recommends contacting your current or local environmental service company for disposal of SC-10E concentrate via *fuel blending*. This method has proven to be the easiest, most cost effective way to dispose of the spent Petroferm cleaning agents. Disposal options for BIOACT SC-10E rinse water may include treatment of waste in an in-house waste treatment facility. The local governing authority determines sewerability of the material. For assistance in finding suitable disposal service, please contact your Petroferm representative.

Compatibility Stencils – At operating temperatures below 115°F (46°C), BIOACT SC-10E Cleaner is compatible with stencil materials of construction, including adhesives and emulsions. Always keep operating temperatures below 130°F (54°C) when cleaning stencils. Studies show that stencil materials of construction are much more susceptible to attack at temperatures above 130°F (54°C), regardless of cleaning product.

Circuit Assemblies –BIOACT SC-10E Cleaner is compatible with PWB materials of construction such as epoxies, flex laminates, and other cross-linked polymers. It does not affect cured solder mask. It will remove OSPs (organic solderability preservatives).

Equipment – Concentrated BIOACT SC-10E Cleaner is compatible with stainless steel equipment. It is not compatible with polymeric tank and/or plumbing materials of construction such as polypropylene. Viton and/or Teflon elastomers are recommended for seals, gaskets, and O-rings.

Safety and Toxicity

See Material Safety Data Sheet for detailed information.

Packaging

BIOACT SC-10E is available in 5-gallon pails (34 lb/20 liter) and 55-gallon drums (369 lb/208 liter). Samples are available in one-quart and one-gallon containers.

Shipping

Regulated - Please see Material Safety Data Sheet for detailed information.

Storage

BIOACT SC-10E Cleaner should be stored in the original container, preferably in a cool, ventilated, fire-resistant building.

Shelf Life

The shelf life for this product is indefinite when it is stored in its original, sealed container at room temperature. However, the product should be inspected after the designated date on the product label (twenty-four months from the date of manufacture) prior to customer use.

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