



BIOACT[®] EC-ULTRA[®] Defluxer

Technical Data Sheet

BIOACT EC-ULTRA is a bio-based, semi-aqueous spray and immersion cleaner designed for ambient or heated defluxing applications. This proprietary cleaner is a mixture of esters and surfactants.

BIOACT EC-ULTRA is a water-rinsable cleaner, selected for its low levels of Volatile Organic Compounds (VOCs). It is also selected for its very low odor, low vapor pressure, temperature flexibility and overall process versatility.

BIOACT EC-ULTRA effectively removes ionic contamination and solder flux residues from Surface Mount Devices (SMDs) and other electronic components.

BIOACT EC-ULTRA offers excellent compatibility with most substrates and materials used in electronic assembly cleaning applications.

BIOACT EC-ULTRA does not contribute to ozone depletion and its components are approved by the EPA's Significant New Alternatives Policy (SNAP) as an alternative to ozone depleting substances.

BIOACT EC-ULTRA forms an emulsion in the water rinse. For applications requiring cleaner recovery and recycling, BIOACT[®] EC-7R[™] is recommended.

BIOACT EC-ULTRA is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.



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EC-7R is a trademark of Petroferm Inc.

FEATURES & BENEFITS

- Removes Flux Residues
- Used at Elevated Temperatures
- Easy Water Rinsing
- Good Solvency
- Removes Ionics
- Bio-Based Technology
- Low VOCs
- Zero Ozone Depletion
- SNAP Approved Components
- Non-Flammable

PROPERTIES

Appearance.....	Clear liquid
Odor.....	Very low
Flash Point.....	285°F (141°C)
Specific Gravity (25°C).....	0.85
Viscosity (25°C)	5-6 cps
Vapor Pressure (20°C).....	< 0.001 mm Hg

PROCESS

Wash: Add BIOACT EC-ULTRA at full concentration to the wash tank reservoir operating temperatures typically ranging from 140°F (60°C) to 180°F (82°C). Mechanical agitation is recommended.

Rinse: Remove BIOACT EC-ULTRA from the substrate surface with a heated water rinse. Most systems incorporate two or three successive rinses. Mechanical or ultrasonic agitation is recommended.

SOILS REMOVED

- No-Clean Flux Residues
- RMA Flux Residues
- Water-Soluble Flux Residues
- Uncured SMD Adhesives
- Ionic Contamination
- Fingerprint Oils

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EQUIPMENT

- BIOACT EC-ULTRA is suitable for use in a variety of specially designed cleaning equipment including immersion, spray-in-air and spray-under-immersion systems.
- Bath concentration may be monitored by specific gravity or refractive index.
- Companies requiring new cleaning equipment may contact Petroferm for supplier recommendations.

HEALTH & SAFETY

Environmental

BIOACT EC-ULTRA is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

Health & Safety

BIOACT EC-ULTRA is a suitable alternative to substances with high exposure hazards.

Fire Risk

BIOACT EC-ULTRA is a suitable alternative to flammable or combustible materials.

SHELF LIFE

The shelf life for this product is thirty-six (36) months when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after thirty-six (36) months from the date of manufacture prior to customer use.

Typical property data is not intended for specification purposes. Petroferm, its sales agents and distributors make no warranty of merchantability of the product or of product fitness for any particular purpose. This product and all information supplied are used at the purchaser's own risk. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.

ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP).....	Zero
Global Warming Potential (GWP).....	Low
Volatile Organic Compound (VOC).....	163 g/l
Significant New Alternatives Program (SNAP).....	*Approved
Hazardous Air Pollutant (HAP).....	No
National Emission Standards for Hazardous Air Pollutants (NESHAPs).....	Not regulated
Superfund Amendments and Reauthorization Act (SARA).....	Not regulated
Resource Conservation and Recovery Act (RCRA).....	Not regulated

*BIOACT EC-ULTRA components

DISPOSAL/SAFETY

Disposal: Petroferm recommends contacting your current or local environmental service company for disposal of this product.

Safety: Please see Material Safety Data Sheet for further information.

Storage: BIOACT EC-ULTRA should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

Packaging: BIOACT EC-ULTRA is available in 35 lb (16 kg) pails and 390 lb (177 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

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Doc. No. 0325 Rev. No.: 0001 Date: 1-08