



# BIOACT<sup>®</sup> EC-15<sup>™</sup> Defluxer

## Technical Data Sheet

BIOACT EC-15 is a semi-aqueous spray and immersion cleaner designed for ambient or heated defluxing applications. This proprietary cleaner is a mixture of esters, modified alcohols and surfactants.

BIOACT EC-15 is a water-rinsable cleaner, selected for its excellent solvency, easy rinsing, high soil loading, temperature flexibility and process versatility. It is also selected for its mild odor and high flash point.

BIOACT EC-15 effectively removes ionic contamination and high temperature solder flux residues from Surface Mount Devices (SMDs) and other electronic components.

BIOACT EC-15 offers excellent compatibility with most substrates and materials used in electronic assembly cleaning applications. It is not recommended for use with RTV silicones, polystyrenes or polycarbonates.

BIOACT EC-15 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-15 forms an emulsion in the water rinse. For applications requiring cleaner recovery and recycling, BIOACT<sup>®</sup> EC-7R<sup>™</sup> is recommended.

BIOACT EC-15 is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.



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EC-7R and EC-15 are trademarks of Petroferm Inc

### FEATURES & BENEFITS

- Removes High-Temp Residues
- Used at Elevated Temperatures
- Easy Water Rinsing
- Excellent Solvency
- High Soil Loading
- Removes Ionics
- Zero Ozone Depletion
- Low VOCs
- SNAP Approved Components
- pH Neutral

### PROPERTIES

Appearance.....	Yellow to amber liquid
Odor.....	Mild
Flash Point.....	310°F (154°C)
Specific Gravity (25°C).....	0.91
Viscosity (25°C) .....	9.0 cps
Vapor Pressure (20°C).....	< 1.0 mm Hg

### PROCESS

**Wash:** Add BIOACT EC-15 at full concentration to the wash tank reservoir at operating temperatures typically ranging from 140°F (60°C) to 180° (82°C). Mechanical agitation is recommended.

**Rinse:** Remove BIOACT EC-15 from the substrate surface with an agitated, heated water rinse. Most systems incorporate two or three successive rinses. Mechanical or ultrasonic agitation is recommended.

### SOILS REMOVED

- Lead-Free Flux Residues
- No-Clean Flux Residues
- RMA Flux Residues
- Water-Soluble Flux Residues
- Fingerprint Oils
- Uncured SMD Adhesives
- Ionic Contamination
- High-Temp Residues

# BIOACT EC-15 Defluxer

## EQUIPMENT

- BIOACT EC-15 is suitable for use in specially designed cleaning equipment including immersion, ultrasonics, 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-15 is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

### Health & Safety

BIOACT EC-15 is a suitable alternative to substances with high exposure hazards.

### Fire Risk

BIOACT EC-15 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).....	283 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-15 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-15 should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

**Packaging:** BIOACT EC-15 is available in 38 lb (17 kg) pails and 415 lb (188 kg) drums.



## Petroferm

*Advanced Products for Advanced Cleaning*

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