



BIOACT[®] EC-7M[™]

Defluxer

Technical Data Sheet

BIOACT EC-7M is a high performance electronics cleaner designed for hand-wipe and immersion defluxing applications. This proprietary cleaner is based on a mixture of ultra purity citrus terpenes.

BIOACT EC-7M is selected when a bio-based cleaner with excellent solvency, low surface residue and good compatibility is required.

BIOACT EC-7M effectively removes a broad range of rosin, no-clean and water-soluble flux residues from Surface Mount Devices (SMDs) and other electronic components. It also removes adhesives, pastes, inks, oils and greases as well as many types of conformal coatings.

BIOACT EC-7M may be a suitable hand-wipe replacement for isopropyl alcohol (IPA) and other low flash point, flammable solvents. It may also be an effective alternative to HCFC-141b and HCFC-225, hydrofluorocarbons (HFCs) and hydrofluoroethers (HFEs).

BIOACT EC-7M offers good 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-7M is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.



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EC-7M is a trademark of Petroferm Inc

FEATURES & BENEFITS

- 100% Bio-Based Cleaner
- Good Solvency
- Excellent Material Compatibility
- Low Surface Residue
- Removes Flux Residues
- Replaces Isopropyl Alcohol
- High Soil Loading
- Moderate Dry Times

PROPERTIES

| | |
|----------------------------------|---------------|
| Appearance..... | Clear liquid |
| Odor..... | Citrus odor |
| Flash Point..... | 117°F (48°C) |
| Specific Gravity (25°C)..... | 0.84 |
| Viscosity (25°C)..... | 0.8 cps |
| Vapor Pressure (20°C)..... | 1.6 mm Hg |
| Evaporation Rate (n-BuAc=1)..... | <1.0 |
| Kauri-Butanol (KB) Value..... | .95 |
| Surface Tension (25°C)..... | 26.0 dynes/cm |

PROCESS

Manual Cleaning: Apply BIOACT EC-7M at full concentration to the desired substrate by brush, pad or cloth.

Immersion Cleaning: Add BIOACT EC-7M at full concentration to the wash tank reservoir. The use of heat is not recommended.

Vacuum Equipment: Add BIOACT EC-7M at full concentration to the wash chamber.

SOILS REMOVED

- RMA Flux Residues
- No-Clean Flux Residues
- Water-Soluble Flux Residues
- Raw Solder Pastes
- Uncured SMD Adhesives
- Conformal Coatings
- Ionic Contamination
- Lubricants, Greases, Oils

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EQUIPMENT

- BIOACT EC-7M is suitable for use in a variety of commercially available cleaning equipment including immersion/soak tanks, vertically oscillating systems, ultrasonic cleaning equipment, airless vacuum hydrocarbon systems. The use of heat is not recommended
- Bath concentration may be monitored by titration, refractive index or specific gravity.
- Companies requiring new equipment may contact Petroferm for supplier recommendations.

HEALTH & SAFETY

Environmental

BIOACT EC-7M is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

Health & Safety

BIOACT EC-7M is a suitable alternative to substances with high exposure hazards.

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)..... | 840 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-7M 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-7M should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

Packaging: BIOACT EC-7M is available in 35 lb (16 kg) pails and 385 lb (175 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

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