



BIOACT[®] EC-98 Ultrasonic Defluxer

Technical Data Sheet

BIOACT EC-98 Ultrasonic Defluxer with AquaEdge™ Technology is a cleaner designed for aqueous ultrasonic cleaning equipment. This cleaner is a mixture of water-dilutable solvents, specialty saponifiers and corrosion inhibitors (a proprietary package that significantly increases solder brightness).

BIOACT EC-98 effectively removes solder flux residues from leading paste suppliers such as AIM, Alpha/Cookson, Heraeus, Indium, Kester, Qualitek, Senju and Umicore.

BIOACT EC-98 offers excellent compatibility with most substrates and materials used in electronic assembly cleaning applications.

BIOACT EC-98 does not contribute to ozone depletion. Its components have been carefully selected for their worldwide availability and environmental acceptance making AquaEdge Technology truly global.

BIOACT EC-98 can be evaluated in an aqueous ultrasonic washer at our Applications Lab in Gurnee, Illinois or at an aqueous equipment vendor that you select.

BIOACT EC-98 is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning challenges.

FEATURES & BENEFITS

- Cleans Wide Range of Residues
- High Flux Loading Capacity
- Low Foaming
- Solder Brightener
- Flexibility in Manufacturing
- Long Wash Bath Life
- No Additives Needed
- SNAP Approved Components

PROPERTIES

Appearance.....	Clear liquid
Boiling Point.....	> 200°F (>93°C)
Flash Point.....	None to boiling
Odor.....	Mild
pH.....	10.1 at 15% conc.
Specific Gravity (25°C).....	1.004
Viscosity (25°C)	12 cps

PROCESS

Wash Bath Concentration.....	5-25% conc. (diluted in water)
Wash Bath Temperature.....	100-170°F (40-80°C)
Wash Time.....	10-30 minutes (15% conc. at 160°F (70°C))
Rinse Water Temperature.....	120-160°F (50-70°C)
Drying.....	forced, heated air

SOILS REMOVED

- Lead-free Flux Residues
- No-Clean Flux Residues
- RMA Flux Residues
- Water-Soluble Flux Residues
- Fingerprints
- White Residues
- Ionic Contamination
- High-Temp Flux Residues



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EQUIPMENT

- BIOACT EC-98 was specifically designed for use in aqueous ultrasonic cleaning systems.
- Bath concentration may be monitored by titration or refractive index.
- Companies requiring new cleaning equipment may contact Petroferm for supplier recommendations.

HEALTH & SAFETY

Environmental

BIOACT EC-98 is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

Health & Safety

BIOACT EC-98 is a suitable alternative to substances with high exposure hazards.

Fire Risk

BIOACT EC-98 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.

After thirty-six (36) months from the date of manufacture, the product should be re-inspected 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
Significant New Alternatives Program (SNAP).....	*Approved
Hazardous Air Pollutant (HAP).....	No
Superfund Amendments and Reauthorization Act (SARA).....	Not regulated
Nonylphenol ethoxylates (NPEs).....	None
Alkylphenol ethoxylates (APEs).....	None
Volatile Organic Compound (VOC).....	631 g/l (concentrate)

*BIOACT EC-98 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-98 should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

Packaging: BIOACT EC-98 is available in 42 lb (19.1 kg) pails and 460 lb (208.7 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

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