Bioact® EC-7M™ Flux Remover **Technical Summary**

General Information

Bioact® EC-7MTM is a patented cleaner based upon biodegradable citrus terpenes. Formulated to Micro Care specifications as a room-temperature defluxer by Petroferm, Inc., it is completely ozone-safe. Technicians like the convenient cleaning power of EC-7M while engineers choose it because of the superior results obtained at the lowest possible cost Overall, Bioact EC-7M is an excellent ozone-safe cleaning choice

Applications

Bioact EC-7M cleans all types of electronics: through-hole boards, sur-

face mount assemblies, cables, connectors, discrete components and even bare boards. It removes flux residues, ionics, greases, oils and other contaminants. It also is extremely cost-effective as a screen cleaner and for removing some conformal coatings.

This powerful cleaner is the most versatile of the ozone-safe solvents, and it works well on rosin fluxes, synthetic fluxes, water-soluble fluxes and even some "no-clean" solders. Polar and non-polar contaminates are removed with non-corrosive EC-7M, as well as labels, tape residues and many glues. The solvent has passed the IPC Phase II benchmark tests.

EC-7M is the only terpene cleaner that is 100% volatile so water rinsing is not required. Solvent consumption is minimized because terpenes evaporate more slowly than old-style cleaners. For faster drying, use compressed air or absorb it into static-safe swabs and sponges. The cleaner has been formulated to minimize carbonic acid formation which improves the accuracy of ionic tests. Overall, Bioact can reduce benchtop cleaning costs 50% or more.

Bioact® EC-7M™ Is Your Best Choice for Ozone-Safe Electronics Cleaning

Powerful But Non-Toxic

No Rinsing

Works on All Types of Fluxes

Extremely Economical



Compatibility

Compatibility testing is recommended. The cleaner is safe for most types of plastics, cured epoxies, flex laminates, solder masks, metals and alloys. Recommended elastomers are Nitrile, Teflon and Viton. It is not suited for use on natural rubbers or silicones.

Health & Safety

Terpene-based Bioact EC-7M is essentially non-toxic. The cleaner's distinctive citrus aroma is not harmful. While no Threshold Limit Values (TLV) have been established all the ingredients are on the "Permitted" list issued by the Food

and Drug Administration. None of the ingredients are listed by NTP, IARC or OSHA as known or suspected carcinogens.

Bioact EC-7M is combustible, so good chemical management requires that users be trained in its safe and efficient use. To reduce costs, conserve solvent and minimize hazards it should only be used in cleaning machines designed for combustible solvents or with the Trigger GripTM system.

Environmental

EC-7M contains no chlorine and has an Ozone Depletion Potential (O.D.P.) of zero, including any propellant Produced from renewable resources, it is totally biodegradable. Some regulatory agencies classify EC-7M as a Volatile Organic Compound (VOC); check local regulations for details.

None of the materials in this product are subject to environmental warning labels (U.S. Clean Air Act, 1990, Section 611). When local regulations permit, Micro Care encourages recycling the dispensers and packaging materials for maximum environmental protection.

Bioact® EC-7M™ Flux Remover Selected Technical Data

General Product Data

Primary Use	Flux Remover	Boiling Point Freezing Point	<-40°C/-40°F	
Chemical Family	-	Stability Over Temperature Military Approvals		
Odor				
	Solvency & C	tleaning Data		
K, Value		Specific Gravity 0 84 @		
Percent Volatile		Dielectric Constant		
Surface Tension	33 dynes/cm	Viscosity		
pH		Water Solubility		
Evaporation Rate	<0.7 (Water = 1)	Vapor Density	3.0(Air = 1)	
	Health, Salety & E	nvironmental Data		
Flashpoint (TCC)	62°C / 143°F	Flammability Rating	Combustible	
TLV or PEL		NFPA Ratings: Health:		
Ozone Impact (Incldg. Propellan	t, if Any)Zero	Fire:		
Propellant (Pressurized Contained	ers Only)HFC-134a	Reactivity:		
Organic Content		TSCA Listed	Yes	
	stinctive citrus aroma While the aroma (#MCC-RBNB2) to minimize the arom	is not toxic in any way, Micro Care recommer a and to avoid skin contact.	nds the use of a Trigger Grip	

General Compatibility with Plastics and Elastomers

LITTLE OR NO EFFECT		MODERATE EFFECT		NOT RECOMMENDED		
Nylon	Polyallomers	FR-4 Board	Viton	Acrylics	Polystyrenes	ButylRubber
Nitrile	Polysulfones	Vinyl	Polyethylenes	ABS	Polycarbonates	Silicones
Epoxies	Polypropylene Phenolic Resins	Teflon	Urethanes Viton	Buna N PVC	Natural Rubber Polycarbonates	Neoprene

Bloact EC-7M Packaging and Shipping

PART#	PACKAGING	WEIGHT (K)	WEIGHT (#)
MCC-EC7M	Aerosol	0 28 k	0 62 #
MCC-EC7MG	Minipail	2.70	6.00
MCC-EC7MP	Pail	15.80	35.00
MCC-EC7MD	Drum	176 90	390 00

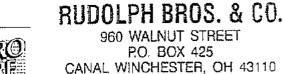
SHIPPING: MCC-EC7M is shipped twelve (12) cans per carton. Packing instructions for ground shipments are "Consumer Commodity ORM-D." Air shipments are classified as "Aerosols, Flammable, N.O.S. (Terpene Hydrocarbons), Class 2.1. Flammable Gas Limited Quantity, UN-1950, Packing Instructions Y203 LTD QTY. "Contact Micro Care when shipping bulk (unpressurized) quantities

NOTES: Micro Care publishes this information from sources believed to be accurate. This data is intended for persons having the technical skills to evaluate and use the data properly. Micro Care does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred using it. Micro Care's liability is limited to the replacement of this product. Product specifications are subject to change without notice.

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