Electronic Cleaning Solutions

- Printed Circuit Board Assembly (PCBA) Cleaners
- Stencil & Misprint Cleaners
- Semiconductor & Component Cleaners
- Cleaners For Pallets & PCBA Equipment
- PCBA Rework Solutions
# PCBA Cleaners

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Type</th>
<th>Method</th>
<th>Use Conc</th>
<th>Use Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOACT™ EC-78</td>
<td>Low-foaming defluxer for batch &amp; inline spray equipment. Contains inhibitors for extended wash cycles and multi-pass cleaning.</td>
<td>Aqueous</td>
<td>Spray</td>
<td>5-25%</td>
<td>120-160°F (50-70°C)</td>
</tr>
<tr>
<td>BIOACT EC-88</td>
<td>Low-foaming defluxer for inline spray equipment. Designed for high throughput operations &amp; hard-to-clean flux residues. Does not damage solder masks or components.</td>
<td>Aqueous</td>
<td>Spray</td>
<td>10-25%</td>
<td>120-160°F (50-70°C)</td>
</tr>
<tr>
<td>BIOACT EC-98</td>
<td>Concentrated, mildly alkaline defluxer for immersion &amp; ultrasonic cleaning.</td>
<td>Aqueous</td>
<td>Immersion;</td>
<td>5-25%</td>
<td>100-170°F (40-80°C)</td>
</tr>
<tr>
<td>BIOACT SC-22</td>
<td>pH Neutral solvent cleaner. Does not require water rinsing. Good for defluxing PCBAs before conformal coating. Flash Point 144°F (62°C).</td>
<td>Solvent</td>
<td>Immersion;</td>
<td>100%</td>
<td>Ambient</td>
</tr>
<tr>
<td>AXAREL™ 2200</td>
<td>Solvent cleaner designed to replace isopropyl alcohol (IPA). Removes white residues. Flash Point 111°F (44°C).</td>
<td>Solvent</td>
<td>Vapor</td>
<td>100%</td>
<td>148-151°F (64-66°C)</td>
</tr>
<tr>
<td>LENIUM™ ES</td>
<td>Stabilized vapor degreasing &amp; defluxing solvent. Based on n-Propyl Bromide (nPB). Excellent on RMA solder paste flux residues &amp; some no-cleans.</td>
<td>Solvent</td>
<td>Degrease</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

Note: Certain types of solvents may require specialized equipment designed for handling flammable or combustible materials.
**CLEANERS FOR PALLETs & PCBA EQUIPMENT**

<table>
<thead>
<tr>
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<th>Use Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOACT EC-98</td>
<td>Concentrated, mildly alkaline pallet cleaner suitable for immersion &amp; ultrasonic equipment.</td>
<td>Aqueous</td>
<td>Immersion; Ultrasonics</td>
<td>5-25%</td>
<td>100-170°F (40-80°C)</td>
</tr>
<tr>
<td>BIOACT EC-78</td>
<td>Concentrated, mildly alkaline pallet cleaner designed for spray equipment.</td>
<td>Aqueous</td>
<td>Spray</td>
<td>5-25%</td>
<td>120-160°F (50-70°C)</td>
</tr>
<tr>
<td>AXAREL 2200</td>
<td>Versatile solvent cleaner for pallets, reflow ovens &amp; cleaning of PCBA equipment. Flash Point 111°F (44°C).</td>
<td>Solvent</td>
<td>Immersion; Manual</td>
<td>100%</td>
<td>Ambient</td>
</tr>
<tr>
<td>LENIUM ES</td>
<td>Stabilized vapor degreasing &amp; defluxing solvent. Based on n-Propyl Bromide (nPB).</td>
<td>Solvent</td>
<td>Vapor</td>
<td>100%</td>
<td>148-151°F (64-66°C)</td>
</tr>
</tbody>
</table>

**PCBA REWORK SOLUTIONS**

<table>
<thead>
<tr>
<th>Product</th>
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<th>Use Conc</th>
<th>Use Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXAREL 2200</td>
<td>Versatile solvent cleaner for removing flux residues during rework. Also removes tape residues, raw solder pastes &amp; uncured SMD mount adhesives. Replaces IPA. Eliminates white residues. Flash Point 111°F (44°C).</td>
<td>Solvent</td>
<td>Immersion; Manual</td>
<td>100%</td>
<td>Ambient</td>
</tr>
<tr>
<td>BIOACT SC-10</td>
<td>Fast evaporating cleaner ideal for cleaning flux residues. Also removes tape residues &amp; acrylic-based conformal coatings. Replaces IPA. Eliminates white residues. Flash point 105°F (41°C).</td>
<td>Solvent</td>
<td>Immersion; Manual</td>
<td>100%</td>
<td>Ambient</td>
</tr>
<tr>
<td>BIOACT 108</td>
<td>Powerful solvent cleaner designed to remove acrylic &amp; silicone-based conformal coatings. Flash point 120°F (49°C).</td>
<td>Solvent</td>
<td>Immersion; Manual</td>
<td>100%</td>
<td>Ambient</td>
</tr>
</tbody>
</table>

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COMPLETE SOLUTION
For more than 35 years, Vantage Surface Treatment Technologies (STT) has manufactured and supplied high reliability cleaning products and surface treatments for the electronic component and printed circuit board assembly (PCBA) market. Our products are designed for use in standard inline and batch defluxing systems, stencil and misprint cleaning equipment as well as vapor degreasing systems. We also offer a complete portfolio of manual hand-wipe cleaning products which are ideal replacements for isopropyl alcohol (IPA).

TRUSTED BRANDS
Marketed under the AXAREL™, BIOACT™, HYDREX™ and LENIUM™ brands, these products are specially formulated to meet today’s performance, compatibility and environmental requirements.

APPLICATIONS & PROCESSES
Vantage electronics cleaning products are used in the following areas:

- PCBAs for Aerospace, Auto, Defense, Medical
- Wafer level packages and bumped wafers
- PCBA equipment
- Power and ignition modules
- Pallets
- RF and microwave devices
- Flip chips, MCMs, SiPs, BGAs, CSPs, & Hybrid Electronics
- Probe cards
- Sensors – pressure, temperature, optical
- Stencils

CONTAMINATES REMOVED
- No-clean flux residue
- RA/RMA flux residue
- Water-soluble flux residue
- Misprinted (raw) solder paste
- Ionic contamination
- Uncured surface mount adhesive
- Particulate matter
- Baked-on-grease/ oil
- Mold release agents
- Rubber/ elastomers
- Plastics/ resins
- Shop dirt
- Fingerprints
- Dust

CUSTOMER LOYALTY
- Apple
- Crane Aerospace & Electronics
- Delphi
- Ducommun
- EPCOS
- Fabrinet
- Flextronics
- Fluke
- Foxconn
- Gentex Corporation
- Halliburton
- Honeywell
- JABIL
- LG Innotek
- LITEON
- Lockheed Martin
- Microsoft
- Philips
- Prismview
- Sanmina
- Schlumberger
- SigmaTron Int’l
- Skyworks
- Spartan
- Spectrum Controls
- TDK
- Teledyne

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