PRODUCT DESCRIPTION
Flux-Off® Aqueous is an extra-strength water based cleaner for flux removal in ultrasonic, batch and in-line cleaning systems. It is an excellent cleaner for the removal of all rosins and no clean flux types from electronic subassemblies, printed circuit boards and all other electronic components. This concentrated formula can be diluted 1:10 with deionized water for handling all cleaning applications. Flux-Off® Aqueous will effectively remove other contaminants such as dirt, grease, handling soils and molding compounds.

- For use with ultrasonic, batch and in-line cleaning systems
- Quickly removes all rosin and no clean flux types
- Removes encrusted, hard, baked fluxes
- Powerful cleaner leaves no residue
- Contains no CFCs or HCFCs
- Nonabrasive and noncorrosive
- Nonflammable
- RoHS compliant

TYPICAL APPLICATIONS
Flux-Off® Aqueous removes flux residues and cleans:
- Chip Carriers
- Heat Sinks
- Metal Housings and Chassis
- Motors and Generators
- Printed Circuit Boards
- Surface Mount Device Pads

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>212°F (Initial)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>100%</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.03</td>
</tr>
<tr>
<td>Flash Point (TCC)</td>
<td>None</td>
</tr>
<tr>
<td>Evaporation Rate (butyl acetate=1)</td>
<td>&gt;1 (similar to water)</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, Amber Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Surface Tension (dynes/cm @ 73°F)</td>
<td>28.0</td>
</tr>
<tr>
<td>pH</td>
<td>12.5</td>
</tr>
<tr>
<td>VOC* Content:</td>
<td></td>
</tr>
<tr>
<td>CARB and Federal rule</td>
<td>16 %</td>
</tr>
<tr>
<td>SCAQMD Rule 1122</td>
<td>165 g/L concentrate</td>
</tr>
<tr>
<td></td>
<td>17 g/L 1:10 dilution</td>
</tr>
<tr>
<td>RoHS Compliant</td>
<td></td>
</tr>
<tr>
<td>Shelflife</td>
<td>2 years after opening</td>
</tr>
</tbody>
</table>

*Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

COMPATIBILITY
Flux-Off® Aqueous is generally compatible with most materials used in printed circuit board fabrication. With any cleaning agent compatibility must be determined on a non-critical area prior to use.
Material Compatibility
ABS Resin Excellent
Buna-N Fair
Butyl Excellent
EPDM Excellent
Graphite Excellent
HDPE Excellent
Kynar™ Excellent
LDPE Excellent
Lexan™ Excellent
Neoprene Good
Noryl® Good
Nylon 101 Good
Cross-Linked PE Good
Polyacrylate Fair
Polypropylene Good
Polystyrene Good
PVC Fair
Silicone Rubber Good
Teflon™ Excellent
Viton™ Good

**AVAILABILITY**
ES132 1 Gallon Liquid

<table>
<thead>
<tr>
<th>ENVIRONMENTAL IMPACT DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCFC-141b</td>
</tr>
<tr>
<td>HCFC-225</td>
</tr>
</tbody>
</table>

Hydrochlorofluorocarbons (HCFCs) are regulated under the Montreal Protocol as Class II ozone depleting substances. HCFC-141b is no longer produced in the US under this legislation. HCFC-225 is planned for production phase-out in 2015. Hydrofluorocarbons (HFCs) are not currently regulated.

EPA has listed n-propyl bromide (nPB) as an acceptable alternative to ozone depleting substances in metal, precision, and electronics cleaning under Section 612 of the Clean Air Act.

**TECHNICAL & APPLICATION ASSISTANCE**
Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401**.

**NOTE:**
This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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