

## Electro-Wash® CZ Cleaner Degreaser

**Product# ES7100, ES7101**

### Product Description

Electro-Wash CZ Cleaner Degreaser is an all purpose cleaner for electronics that is nonflammable, non-ozone depleting, and safe on plastics. This fast drying precision cleaner contains Chemtronics' Cirozane, which is based on new HFE technology. It is excellent for removing grease, oil, and flux residues from energized equipment.

- MIL-PRF-29608A (AS) Class C approved
- Removes dirt, oil, grease, flux and many other contaminants
- Nonflammable
- Excellent material compatibility
- Non-ozone depleting
- Leaves no residues
- Evaporates quickly
- Low Odor
- Contains no CFCs, HCFCs, or 1,1,1 Trichloroethane

### Typical Applications

Electro-Wash CZ Cleaner Degreaser is excellent for cleaning:

- Printed Circuit Boards
- Contacts
- Cable Assemblies
- Sensitive Plastic Surfaces
- Magnetic Heads
- Electronic Controls
- Edge Connectors
- Light Flux Residues



### Typical Product Data and Physical Properties

|                                                |                         |                       |
|------------------------------------------------|-------------------------|-----------------------|
| <b>Boiling Point:</b>                          | 90°F / 32°C (Initial)   |                       |
| <b>Solubility in Water:</b>                    | Negligible              |                       |
| <b>Specific Gravity:</b><br>(water = 1@ 77°F)  | 1.53                    |                       |
| <b>Flash Point (TCC):</b>                      | None to boiling         |                       |
| <b>Evaporation Rate:</b><br>(butyl acetate =1) | >1                      |                       |
| <b>Appearance</b>                              | Clear, colorless liquid |                       |
| <b>Odor</b>                                    | Slight ethereal         |                       |
| <b>Surface Tension:</b><br>dynes/cm @ 25°C     | 11.6                    |                       |
| <b>Dielectric Breakdown</b><br>(ASTM D-877)    | 17 kV                   |                       |
| <b>VOC* Content</b>                            | Aerosol:                | Liquid:               |
| CARB                                           | 38%                     | 100%                  |
| SCAQMD                                         | 187 g/L                 | 373 g/L               |
| Federal                                        | 13%                     | 28%                   |
| <b>Kauri-Butanol</b><br><b>(KB) Number</b>     | 38                      |                       |
| <b>Shelflife</b>                               | Aerosol:                | 5 years               |
|                                                | Liquid:                 | 2 years after opening |

**RoHS Compliant** Yes

\*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).

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### Compatibility

Electro-Wash CZ Cleaner Degreaser is generally compatible with most materials used in the electronics industry. With any cleaning agent compatibility must be determined on a non-critical area prior to use.

| Material        | Compatibility |
|-----------------|---------------|
| ABS             | Excellent     |
| Buna-N          | Excellent     |
| EPDM            | Excellent     |
| Graphite        | Excellent     |
| HDPE            | Excellent     |
| Kynar           | Excellent     |
| LDPE            | Excellent     |
| Lexan           | Good          |
| Neoprene        | Excellent     |
| Noryl           | Excellent     |
| Nylon 66        | Excellent     |
| Cross-Linked PE | Excellent     |
| Polypropylene   | Excellent     |
| Polystyrene     | Good          |
| PVC             | Excellent     |
| Silicone Rubber | Excellent     |
| Teflon          | Excellent     |
| Viton           | Excellent     |

### Competitive Assessment

**Milligrams of Multi-Purpose Oil Removed per Gram of Solvent**

|                 |      |
|-----------------|------|
| Electro-Wash CZ | 2.4  |
| CFC-113 (TF)    | 2.4  |
| HCFC-225        | 0.72 |

### Usage Instructions

**For industrial use only. Read SDS carefully prior to use.**

Spray 4-6 inches from surface to clean. Wash parts from top to bottom, allowing the liquid to flush away dirt and dissolved oil and grease. For precise application use attached extension tube.

### Availability

|        |                        |
|--------|------------------------|
| ES7100 | 12 oz. / 340 g Aerosol |
| ES7101 | 1 Gal. / 3.7 L Liquid  |

### Environmental Impact Data

|           |      |
|-----------|------|
| HCFC-141b | None |
| HCFC-225  | None |
| HFC       | Yes  |
| nPB       | None |

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 and 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.