

# CHEMTRONICS

## Technical Data Sheet

**TDS # 6100**

### Electro-Wash<sup>®</sup> VZ Cleaner Degreaser

#### PRODUCT DESCRIPTION

Electro-Wash<sup>®</sup> VZ Cleaner Degreaser is an all purpose cleaner for electronics that is nonflammable, non-ozone depleting, and low odor. This fast drying precision cleaner contains the Verizane<sup>™</sup> Ozone Safe Replacement Chemistry, formulated with DuPont<sup>™</sup> Vertrel<sup>®</sup> Specialty Fluids. It is excellent for removing grease, oil, and flux residues from energized equipment.

- Removes dirt, oil, grease, flux and many other contaminants
- Nonflammable
- Non-ozone depleting
- Leaves no residues
- Evaporates quickly
- Low Odor
- Contains no CFCs, HCFCs, or 1,1,1 Trichloroethane

#### TYPICAL APPLICATIONS

Electro-Wash<sup>®</sup> VZ Cleaner Degreaser is excellent for cleaning:

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

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

<b>Boiling Point</b>	95°F
<b>Flash Point (TCC)</b>	None
<b>Solubility in Water</b>	Negligible
<b>Specific Gravity</b>	1.24
<b>Evaporation Rate (Butyl acetate=1)</b>	>1
<b>Surface Tension (dynes/cm @ 25°C)</b>	14.1
<b>Kauri-Butanol (KB) Number</b>	26
<b>Dielectric Breakdown (ASTM D-877)</b>	17 kV
<b>VOC* Content (aerosol):</b>	
CARB	45 %
SCAQMD	412 g/L
Federal	19 %
<b>RoHS Compliant</b>	
<b>Shelflife</b>	5 years aerosol / 2 years liquid

\*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

Electro-Wash<sup>®</sup> VZ 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.

<u>Material</u>	<u>Compatibility</u>
ABS	Poor
Buna-N	Good
EPDM	Good
Graphite	Good
HDPE	Good
Kynar™	Good
LDPE	Good
Lexan™	Poor
Neoprene	Good
Noryl®	Good
Nylon™ 66	Good
Cross-Linked PE	Good
Polypropylene	Good
Polystyrene	Poor
PVC	Good
Silicone Rubber	Good
Teflon™	Good
Viton™	Good

**AVAILABILITY**

- ES6100 12 oz. Aerosol
- ES6119 19 oz. Aerosol
- ES6101 1 Gallon
- ES6155 53 Gallon

<b>ENVIRONMENTAL IMPACT DATA</b>			
HCFC-141b	None	HFC	Yes
HCFC-225	None	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.

**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.

**CHEMTRONICS**  
**8125 COBB CENTER DRIVE**  
**KENNESAW, GA 30152**  
**1-770-424-4888**

REV. E (08/13)

Electro-Wash® and Chemtronics® are registered trademarks of Chemtronics. All rights reserved. Verizane™, is a trademark of Chemtronics. All rights reserved. Vertrel® and DuPont™ are trademarks or registered trademarks of E. I. duPont de Nemours and Company.

**DISTRIBUTED BY:**

**USAGE INSTRUCTIONS**

For industrial use only.  
 Read MSDS carefully prior to use.  
 Spray 4-6 inches from surface to clean.  
 Wash parts from top to bottom, allowing the liquid to flush away flux residues, dirt and dissolved oil. For precision application use attached extension tube.

**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.**