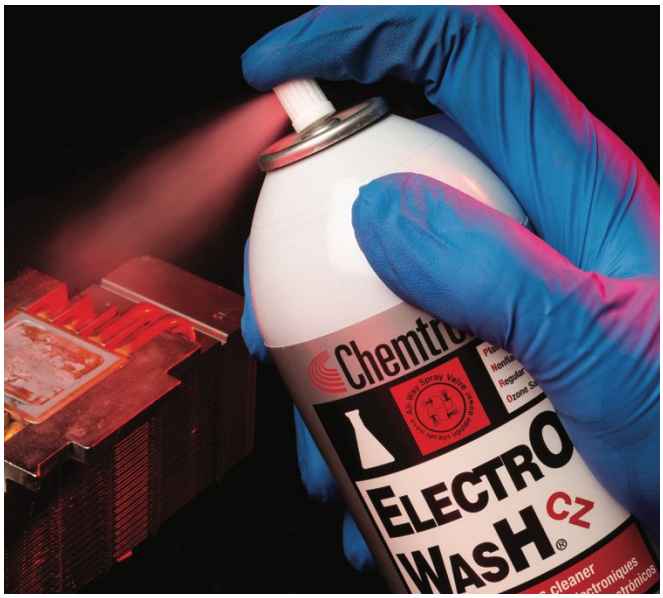
Electro-Wash® CZ Cleaner Degreaser

Product# ES7100, ES7101



Product Description

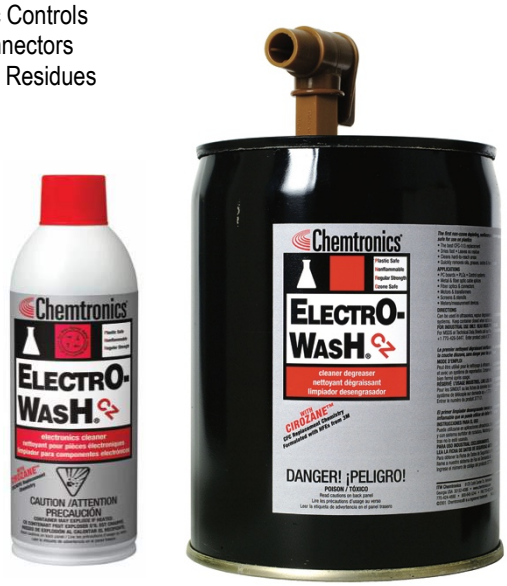
Electro-Wash CZ Cleaner Degreaser is an all purpose cleaner for electronics that is nonflammable, non-ozone depleting, and safe on plastics. This fast drying precision cleaner contains Chemtronics' Cirozane, which is based on new HFE technology. It is excellent for removing grease, oil, and flux residues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

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