

**Pow-R-Wash™ NR Contact Cleaner****PRODUCT DESCRIPTION**

The Pow-R-Wash™ NR Contact Cleaner is a nonflammable electronics contact cleaner that quickly removes soils, oxides, and other contaminants from metal electrical contacts. This high pressure solvent system is engineered to restore and improve electrical continuity on all types of contacts, connectors, and switches.

- Same great features as original formulation but without HCFC-141b
- Removes encrusted oxides, dirt, grease and other contaminants
- Nonflammable
- Penetrates to clean hard to reach areas
- Evaporates quickly
- Leaves no residues
- Noncorrosive; safe for sensitive metals
- Available with All-Way Spray

**TYPICAL APPLICATIONS**

Pow-R-Wash™ NR Contact Cleaner cleans and deoxidizes:

- Circuit Breakers
- Monitors and Generators
- Plugs and Sockets
- Potentiometers
- Printed Circuit Boards
- Relay and Contacts
- Selector Switches
- Solenoids
- Switching Devices

**TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES**

<b>Boiling Point</b>	156° F (Initial)
<b>Evaporation Rate (butyl acetate=1)</b>	>1
<b>Flash Point (TCC)</b>	None
<b>Specific Gravity</b>	1.35
<b>Vapor Pressure @68°F</b>	112 mmHg
<b>Solubility in Water</b>	Negligible
<b>Dielectric Breakdown (ASTM D-877)</b>	23.5 kV
<b>Kauri-Butanol (KB) Number</b>	125
<b>VOC* Content:</b>	<u>Aerosol</u>
CARB	75%
SCAQMD	830 g/L
Federal	42%
<b>RoHS Compliant</b>	
<b>Shelflife</b>	5 years

\*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**

Pow-R-Wash™ NR is generally compatible with most materials used printed circuit board fabrication except acrylics, ABS resins, polycarbonates and polystyrenes. As with any cleaning agent, solvent/component compatibility must be determined on a non-critical area prior to use.

<b><u>Material</u></b>	<b><u>Compatibility</u></b>
ABS	Not Recommended
Buna-N	Not Recommended
EPDM	Not Recommended
Graphite	Excellent
HDPE	Good
Kynar™	Not Recommended
LDPE	Good
Lexan™	Not Recommended
Neoprene	Excellent
Noryl®	Not Recommended
Nylon 66™	Excellent
Cross-Linked PE	Good
Polypropylene	Good
Polystyrene	Not Recommended
PVC	Not Recommended
Silicone Rubber	Excellent
Teflon™	Excellent
Viton™	Good

<b>Performance</b>	
<b>Grease Removal per gram solvent (mg)</b>	
Pow-R-Wash NR	<b>15.4</b>
HFC-based Cleaner	<b>0.5</b>
<b>Grease &amp; Lubricating Oil Removal per gram solvent (mg)</b>	
Pow-R-Wash NR	<b>22.5</b>
HFC-based Cleaner	<b>0.5</b>

## USAGE INSTRUCTIONS

For commercial 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 dirt and dissolved grease. For precise application use attached extension tube.

## AVAILABILITY

ES1613 12 oz. Aerosol

## TECHNICAL & APPLICATION ASSISTANCE

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

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

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. ITW 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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