

Technical Data Sheet**Pow-R-Wash™ NX New & Improved!
Contact Cleaner****PRODUCT DESCRIPTION**

Pow-R-Wash™ NX New & Improved! Contact Cleaner is a nonflammable 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, without HCFC-141b
- Removes encrusted oxides, dirt, grease and other contaminants
- Penetrates to clean hard to reach areas
- Evaporates quickly
- Nonflammable
- Leaves no residues
- Noncorrosive; safe for sensitive metals
- Available with All-Way Spray valve
- Patent Pending

TYPICAL APPLICATIONS

Pow-R-Wash™ NX New & Improved! 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

Boiling Point	>99°F Initial
Evaporation Rate (butyl acetate=1)	>1
Flash Point (TCC)	None
Specific Gravity	1.28
Vapor Pressure @68°F	183 mm Hg
Appearance	Clear, Colorless Liquid
Odor	Ethereal
Solubility in Water	Negligible
Dielectric Breakdown (ASTM D-877)	30 kV
Shelflife	5 years



**RoHS/WEEE
Status**

COMPATIBILITY

Pow-R-Wash™ NX New & Improved! Contact Cleaner 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.

<u>Material</u>	<u>Compatibility</u>
Buna-N	Not Recommended
Graphite	Good
HDPE	Good
Kynar™	Poor
LDPE	Good
Lexan™	Not Recommended
Neoprene	Poor
Noryl®	Poor
Cross-Linked PE	Good
Polyacrylate	Not Recommended
Polystyrene	Not Recommended
PVC	Poor
Silicone Rubber	Not Recommended
Teflon™	Good
Viton™	Poor

Performance	
Grease Removal per gram solvent (mg)	
Pow-R-Wash NX	15.6
New & Improved!	
HFC-based Cleaner	0.5
Grease & Lubricating Oil Removal per gram solvent (mg)	
Pow-R-Wash NX	23.8
New & Improved!	
HFC-based Cleaner	0.5

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

ES1612 12 oz. Aerosol

ENVIRONMENTAL IMPACT DATA

ENVIRONMENTAL IMPACT DATA			
CFC	0.0%	VOC	46.8%
HCFC-141b	0.0%	HFC	39.2%
HCFC-225	11.6%	nPB	0.0%

CFC, HCFC-225, HCFC-141b, VOC, HFC, and nPB percentages shown are the content by weight.

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.

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Information: 800-TECH-401

Product Identification

New & Improved Pow-R-Wash® NX

Product Code: ES1612

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt. % Range
HCFC-225ca	422-56-0	1.0-20.0
HCFC-225cb	507-55-1	1.0-20.0
Pentafluorobutane	406-58-6	0.0-40.0
Trans-1,2-dichloroethylene	156-60-5	20.0-50.0
1,1,1,2-Tetrafluoroethane	811-97-2	1.0-20.0
Carbon Dioxide	124-38-9	1.0-10.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Clear, colorless liquid with faint ethereal odor. This product is nonflammable. Liquid may irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce dizziness and nausea.

Potential Health Effects:

Eyes: Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

Skin: Prolonged contact can cause skin irritation, including redness, burning, drying and/or cracking of skin..

Ingestion: May be harmful if swallowed. Swallowing this material may result in nausea, vomiting and weakness followed by central nervous system depression.

Inhalation: Can be harmful if inhaled. High concentrations of vapors in immediate area can cause dizziness, nausea, vomiting, unconsciousness and death.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting. If conscious, give 2 glasses of water. Never give anything by mouth to an unconscious person. Keep head below knees to minimize chance of aspirating material into the lungs. Get medical attention immediately.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None to boiling (TCC)

Extinguishing Media: Use water spray or fog, CO₂, dry chemical or water stream when fighting fires involving this material.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills: Shut off leak if possible and safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor or mist. Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container closed when not in use. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	OTHER
Pentafluorobutane	not established	not established	
HCFC-225 ca/HCFC-225 cb	not established	not established	100 ppm*
trans-1,2-Dichloroethylene	200 ppm	200 ppm	
1,1,1,2-Tetrafluoroethane	not established	not established	1000 ppm*

* Supplier's Occupational Exposure Limit

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves.

NFPA and HMIS Codes:

	NFPA	HMIS
Health	1	1
Flammability	1	1
Reactivity	1	1
Personal Protection	-	B

