



I. Product Description

PF™ Precision Cleaner is an innovative new contact cleaner blend of HFE (hydrofluoroether) and HCFC (141b) which performs similarly to CFC (113) contact cleaners. **PF™ Precision Cleaner's** unique blend offers strong cleaning action, fast evaporation and no residue. It has no flash or fire point and is safe to use on plastics. **PF™ Precision Cleaner** contains no class I ozone depleting chemicals.

II. Applications

Recommended for precision cleaning of contacts, printed circuit boards, switches, telephones, PCs, motors, relays, generators, edge connectors, tape heads, buss bars and circuit breakers. Excellent for use around plastics and insulators.

III. Features & Benefits

- **No Flash or Fire Point.** Significantly reduces the risk of fire caused by incidental contact with live electrical equipment, increasing user safety and allowing **PF™ Precision Cleaner** to be used anywhere CFC 113 products would be used.
- **Plastic Safe.** Allows one product to be used in all applications without risk of costly damage to sensitive plastics.
- **Fast Evaporation.** Minimizes downtime associated with “clean-in-place” cleaning methods.
- **No Class I Ozone Depleting Chemicals.** Offers superior performance while complying with the EPA regulations on the use of CFCs.
- **M.S.D.[L.]™-Material Safety Data Label.** Provides instant access to current safety information should an accident or OSHA inspection occur. Helps comply with **OSHA Hazard Communications Standard 29 CFR 1910.1200**.

IV. Physical Properties without propellant

| | | | |
|-------------------------------------|----------------|---------------------|-------------------|
| Flash Point | None | Boiling Point | 89.6° F (initial) |
| Odor | Faint Ethereal | Solubility | Neg. in water |
| Appearance | Clear liquid | % Volatile | 100% |
| Vapor Density | Not Determined | Specific Gravity | 1.36 @ 70° F |
| VOC Content (Fed) | 0 (Exempt) | Dielectric Strength | 19,500 volts |
| Sara Title III, Sect. 313 Chemicals | Yes | Surface Tension | <18.4 dynes/cm. |
| Prop 65 | No | Propellant | 152a |

V. Specifications and Approvals

- Meets 1998 USDA guidelines for use in meat and poultry plants.
- NSF K2 registered for use in meat and poultry plants.

VI. Performance Characteristics

| | |
|---|--------------|
| Bellcore Test (Plastic Safety) | Passed |
| ASTM D-877 (Dielectric Strength) | 19,500 volts |
| ASTM D-56 (Flash Point) | None (TCC) |
| ASTM D-1130 (KB Value) | >27 |

VII. Directions

- Spray liberally on surface to be cleaned.
- Use of an abrasive on heavy carbon deposits is recommended to accelerate cleaning.
- Be certain all dirt and carbon residue is removed and allow to fully evaporate before re-energizing system.
- Due to risk of electric shock, do not use on energized equipment.
- Follow routine maintenance schedule for prolonged equipment life and increased performance

VIII. Package Description

| Part Number | Container Size |
|--------------------|-----------------------|
| 02190 | 16 oz Aerosol |
| 02193 | 55 Gallon Drum |
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| 03193 | 55 Gallon Drum |

IX. Disposal

Disposal requirements vary by state and local jurisdiction. All used and unused product should be disposed of in conformance with local, state and federal regulations.

IX. Special Use Warnings

Aerosol Cans

Do not puncture, incinerate or store above 120° F. Exposure to high temperatures may cause can to burst. Do not place in direct sunlight or near any heat source. Aerosol cans will conduct electricity. Keep away from all live electrical sources including battery terminals, solenoids, electrical panels and other electronic components. Failure to observe this warning may result in serious injury from flash fire and/or electrical shock.

General

Use only in well ventilated area. Ventilation may be improved by opening a window or door or providing mechanical assistance. Avoid continuous breathing of vapor and spray mist. Avoid contact with skin and eyes. If ventilation is not adequate, respiratory protection should be worn. For more information regarding short term and long term exposure, review this product's Material Safety Data Sheet.

Restrictions

Contains HCFC (141b), which has use restrictions and may only be sold to professional users for applications consistent with the regulation.

PRODUCT WARRANTY: CRC offers a conditional warranty on this product for the period of 2 years from the date of manufacture.

DISCLAIMER: This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. All products should be tested for suitability on a particular application prior to actual use. CRC Industries, Inc. makes no representations or warranties of any kind concerning this data.