



## ***I. Product Description***

**HF™ Contact Cleaner** is a high flash point, petroleum distillate-based precision cleaner that effectively cleans electronics and electrical equipment. **HF™ Contact Cleaner** evaporates moderately without leaving a residue and can be effectively used for cleaning operations where equipment is removed from service. May be used around most plastic materials.

## ***II. Applications***

Recommended for the effective removal of dirt, dust, light oils, and fingerprints from contacts, printed circuit boards, switches, motors, relays, generators, circuit breakers, plugs and jacks, electromechanical assemblies, and sensors.

## ***III. Features & Benefits***

- **Moderate Evaporation.** Allows cleaner to penetrate minute spaces for thorough removal of trapped debris.
- **High Flash Point.** Reduces potential for fire.
- **No Class I or II Ozone Depleting Chemicals.** Offers strong alternative to CFC and HCFC products while complying with the EPA regulations on the use of ozone depleting chemicals.
- **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                         | 147° F (TCC)       |                 | Boiling Point    | 365°F (initial)     |
| Odor                                | Negligible         |                 | Solubility       | Negligible in water |
| Appearance                          | Clear, liquid      |                 | % Volatile       | 100%                |
| Vapor Density                       | >5 (air = 1)       |                 | Specific Gravity | 0.77                |
| VOC Content (Fed)                   | Aerosol<br>747 g/L | Bulk<br>770 g/L | Vapor Pressure   | <10 mm at 250°      |
| Sara Title III, Sect. 313 Chemicals | None               |                 | Propellant       | CO <sub>2</sub>     |
| Prop 65                             | Yes                |                 |                  |                     |

## ***V. Specifications and Approvals***

- Authorized by USDA (K2) for use in federally inspected meat and poultry plants.

## VI. Performance Characteristics

|  |                |
|--|----------------|
| <b>Bellcore Test (Plastic Compatibility)</b> | Not determined |
| <b>ASTM D-1130 (KB Value)</b>                | 27             |
| <b>ASTM D-877 (Dielectric Strength)</b>      | 43,600 volts   |
| <b>ASTM D-56 (Flash Point)</b>               | 147° F (TCC)   |

## VII. Directions

- Spray liberally on surface to be cleaned and allow to run off.
- Use extension tube for pinpoint cleaning.
- Use an abrasive on surfaces with heavy carbon deposits or corrosion.
- Apply liberally and allow to penetrate to free rusted parts.
- Remove residue with intermittent spray before reactivating the system.
- Periodic planned maintenance prolongs life expectancy of components and helps eliminate deposits that cause leakage.
- Use resistance measurements to determine frequency of application.
- Do not apply while equipment is energized.

## VIII. Package Description

| <b>Part Number</b> | <b>Container Size</b> |
|--------------------|-----------------------|
| 02125              | 16 oz Aerosol         |
| 03125              | 16 oz Aerosol         |
| 03126              | 5 Gallon Pail         |

## 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.

**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.

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