

**DIRECTIONS:** Read entire label before using this product. 1. Do not apply while equipment is energized. 2. Safe on most plastics but test first to ensure compatibility. 3. For best results, on heavily corroded metals and carbon deposits, prepare surface using a mild abrasive before applying HF™ Contact Cleaner. 4. For electrical components, shut-off or disconnect power supply and be sure all stored energy has been drained from the system. 5. Spray until clean. Use extension tube for hard to reach areas and pinpoint cleaning. 6. Allow product to run off between spray applications. 7. To facilitate drying, either wipe excess with clean dry cloth or blow air over surface. 8. Allow product to fully evaporate and vent before energizing system.

**INSTRUCCIONES:** Lea la etiqueta completa antes de usar este producto. 1. No aplique el producto mientras el equipo esté conectado. 2. Es seguro sobre la mayoría de los plásticos, pero haga una prueba previamente para garantizar la compatibilidad. 3. Para obtener resultados óptimos, aplique un abrasivo suave sobre las superficies que presentan corrosión o gran cantidad de depósitos de carbono antes de aplicar el limpiador de contacto HF™. 4. Con componentes eléctricos, corte o desconecte el suministro de energía y asegure de haber eliminado del sistema toda la energía almacenada. 5. Rocíe hasta que quede limpio. Utilice el tubo de extensión para alcanzar las áreas difíciles y realizar una limpieza precisa. 6. Deje que el producto desaparezca de la superficie entre una aplicación y otra. 7. Si fuera necesario, repita el proceso hasta que la superficie esté limpia o hasta que los niveles de resistencia alcancen las especificaciones deseadas. 8. Deje que el producto se evapore totalmente y ventile antes de conectar el sistema.

**Danger:** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.



**Precautionary Statements:** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Avoid breathing mist or vapor. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing gas. Wash thoroughly after handling. Wear protective gloves. Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst. Dispose of contents/container in accordance with local/regional/national regulations.

**First Aid:** If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Contains Hydrotreated light distillates (64742-47-8) and Carbon dioxide (124-38-9). Deliberate misuse by concentrating and inhaling the contents is illegal and can be harmful or fatal. Inhalation abuse can cause death. For additional information, consult SDS for this product.

**Electrical Shock Hazard:** This can 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.

**Peligro:** Aerosol extremadamente inflamable. Contiene gas a presión; puede explotar si se calienta. Puede ser mortal en caso de ingestión y de penetración en las vías respiratorias. Provoca irritación cutánea. Puede provocar somnolencia o vértigo.

**Consejos de prudencia:** Mantener lejos de calor/chispas/llamas al descubierto/superficies calientes. - No fumar. No rocíe sobre una llama abierta u otra fuente de ignición. No aplique el producto sobre un equipo conectado. Recipientes presurizados: No perforar ni quemar, aun después del uso. Aquece todas las llamas, pillos y calefactores. El vapor se acumulará rápidamente y puede inflamarse. Evite la inhalación de neblina o vapor. Utilice solo con ventilación adecuada; mantenga la ventilación durante la utilización del producto hasta que el vapor haya desaparecido. Abra las puertas y ventanas y utilice otros medios para asegurar la provisión de aire fresco al utilizar el producto y mientras se está secando. Si presenta algunos de los síntomas enumerados en esta etiqueta, aumente la ventilación o deje el área. Evite la inhalación de gases. Lávese cuidadosamente después de la manipulación. Use guantes de protección. Almacene en lugar bien ventilado. Guardar bajo llave. Proteger de la luz solar. No exponer a temperaturas superiores a 50 °C/122 °F. La exposición a altas temperaturas puede provocar que la lata estalle. Eliminación de contenidos / contenedor en consonancia con los reglamentos locales / regionales / nacionales pertinentes.

**Primeros Auxilios:** En caso de ingestión: Llamar inmediatamente a un centro de toxicología o a un médico. No provoque vómitos. En caso de contacto con la piel: Lavar con abundante agua. Si ocurre irritación de la piel: Busque atención médica. Quitar la ropa contaminada y lavarla antes de volver a usarla. En caso de inhalación: Transportar la persona al aire libre y mantenerla en una posición que le facilite la respiración. Llamar a un CENTRO DE TOXICOLOGIA o a un médico si la persona se encuentra mal.

Su mal uso deliberado, concentrando e inhalando su contenido es ilegal y puede ser perjudicial o fatal. La inhalación abusiva puede causar la muerte. Para mayor información, consulte la Hoja de Datos de Seguridad para este producto.

**Peligro de Descarga Eléctrica:** Esta lata conduce la electricidad. Mantenga fuera del alcance de todas las fuentes eléctricas vivas, incluso bombes de baterías, solenoides, tableros eléctricos y otros componentes electrónicos. Pasar por alto esta advertencia puede derivar en lesiones graves provocadas por fuego explosivo y/o descarga eléctrica.

VOC Category: Electronic Cleaner VOC Limit: 75%



# HF™ Contact Cleaner

## Limpiador de Contacto

High Flash Point  
Leaves No Residue  
Zero VOC

Punto de Inflamación Elevado  
No Deja Residuos  
Sin Voc



Nonfood Compounds  
Program Listed  
Category Code: K2  
Reg.# 017378



**DANGER: EXTREMELY FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. CAUSES SKIN IRRITATION. CONTENTS UNDER PRESSURE. KEEP AWAY FROM CHILDREN. Read warnings on back panel.**

**PELIGRO: EXTREMAMENTE INFLAMABLE. SU INGESTIÓN ES PERJUDICIAL O MORTAL. PROVOKA IRRITACIÓN CUTÁNEA. CONTENIDO BAJO PRESIÓN. MANTENGA FUERA DEL ALCANCE DE LOS NIÑOS. Lea las advertencias en el dorso.**



**No. 02125**  
**Net Wt./Peso Neto**  
**11 oz. (312 g)**

To review S.D.S.: Tear (DO NOT CUT) label along these perforations and fold back label. After viewing, reattach label. Do not completely remove label until can is empty. Para revisar la Hoja de Datos de Seguridad (HDS): Rasgue (NO CORTE) la etiqueta siguiendo estas perforaciones y dóblela hacia atrás. Al terminar, vuelva a pegar la etiqueta. No la retire completamente hasta que la lata esté vacía.

## 1. Identification

**Product identifier:** HF™ Contact Cleaner

**Product code** 02125

**Recommended use** Electronic cleaner

**Restrictions** None known.

**Manufactured or sold by:** CRC Industries, Inc., 885 Louis Drive, Warminster, PA 18974

**Phone:** 215-674-4300

**Emergency phone number** CHEMTREC - 24 HOURS: 800-424-9300

## 2. Hazard(s) identification

**Physical hazards** Flammable aerosols (Category 1)  
Gases under pressure (Compressed gas)  
**Health hazards** Skin corrosion/irritation (Category 2)  
Specific target organ toxicity, single exposure (Category 3 narcotic effects)  
Aspiration hazard (Category 1)

**Label elements (see front side of label)**

## 3. Composition/information on ingredients

**Hazardous components**

Chemical name	CAS number	%
Hydrotreated light distillates	64742-47-8	90 – 100
Carbon dioxide	124-38-9	1 – 3

(Specific chemical identity and/or percentage of composition has been withheld as a trade secret.)

## 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Get medical attention.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth.

Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects** Diarrhea. Drowsiness and dizziness. Headache. Nausea, vomiting. Irritant effects.

**Special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## 5. Fire-fighting measures

**Suitable extinguishing media** Powder. Alcohol resistant foam. Dry chemicals. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards** Contents under pressure. Pressurized container may explode when exposed to heat or flame.

**Special protective equipment and precautions for firefighters** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions** Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

**Containment and cleaning up** Eliminate all ignition sources. Keep combustibles away from spilled material. Absorb in vermiculite, dry sand, earth or other absorbent material and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

## 7. Handling and storage

**Handling** Pressurized container: Do not pierce or burn, even after use. When using, do not eat, drink or smoke. Avoid breathing gas, mist or vapor. Avoid contact with skin and eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling.

**Storage** Store in a cool, dry place (below 122°F/50°C) and out of direct sunlight. Store in a well-ventilated place. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

Components	Type	Value
Carbon dioxide	TWA	5000 ppm
Hydrotreated light distillates	TWA	100 mg/m <sup>3</sup>

**Appropriate engineering controls** Mechanical ventilation or local exhaust ventilation is recommended.

**Individual protection measures:**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection** Wear protective gloves such as neoprene or nitrile. Wear appropriate clothing to prevent skin contact.

**Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA).

## 9. Physical and chemical properties

**Appearance** Clear liquid.

**Odor** Mild hydrocarbon.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -72 °F (-58 °C)

**Initial boiling point** 430 °F (221 °C)

**Flash point** 204 °F (<96 °C) Tag Closed Cup

**Evaporation rate** Slow

**Explosive limit - lower (%)** 0.6

**Explosive limit - upper (%)** 5.5

**Vapor pressure** 1625 hPa

**Vapor density** 4.5 (Air = 1)

**Relative density** 0.82

**Solubility(ies)** Negligible in water.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 457 °F (236 °C)

**Decomposition temperature** Not available.

**Viscosity** Not available.

**VOC (Weight %):** 0%

## 10. Stability and reactivity

**Reactivity** Non-reactive

**Chemical stability** Stable

**Possibility of hazardous reactions** No

**Conditions to avoid** Heat, flames and sparks. Temperatures exceeding the flash point. Incompatible materials.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** Carbon oxides.

## 11. Toxicological information

**Information on likely routes of exposure:**

**Ingestion** May be fatal if swallowed and enters airways.

**Inhalation** Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Skin contact** Causes skin irritation.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**

Diarrhea. Drowsiness and dizziness. Headache. Nausea, vomiting. Irritant effects.

**Information on toxicological effects:**

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects.

**Respiratory sensitization** Not available.

**Skin sensitization** Not expected to cause skin sensitization.

**Carcinogenicity** Not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

**Reproductive toxicity** Not expected to cause reproductive or developmental effects.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

See full SDS for additional information

## 13. Disposal considerations

**Disposal instructions** The dispensed liquid product is not a RCRA hazardous waste.

Empty container can be recycled.

**Hazardous waste code** Not regulated.

## 14. Transport information

**DOT shipping description:** UN1950, Aerosols, flammable, 2.1, limited quantity

## 15. Regulatory information

**SARA 313** None

See full SDS for additional information

## 16. Other information

**Issue date** 5/19/2014

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