

**DIRECTIONS: Read entire label before using this product. 1. For personal safety, do not apply while equipment is energized. 2. May be harmful to some plastics. Do not use on polycarbonate plastics, such as Lexan®. If in doubt call the manufacturer of the equipment. Do not use on sensitive electronic equipment such as DVD's, computers, fax machines, copiers, printers, shredders, etc. 3. Spray until clean and allow to run off. Use extension tube for pinpoint cleaning. 4. Use an abrasive on surfaces with heavy carbon deposits or corrosion- remove residue with intermittent spray before reactivating system. 5. Product may collect and pool in unseen areas. Use a combustible gas detector to be certain there are no flammable vapors remaining before reactivation. 6. Periodic planned maintenance prolongs life expectancy of components and helps eliminate deposits that cause leakage. Use resistance measurements to determine frequency of application.**

**INSTRUCCIONES: Lea la etiqueta completa antes de usar este producto. 1. Para seguridad personal, no aplicar en equipos con corriente eléctrica. 2. Puede ser dañino para algunos plásticos. No usar en plásticos de policarbonato, tales como Lexan®. Si tiene dudas, llame al fabricante del equipo. No utilizar en equipos electrónicos sensibles, tales como DVD's, computadoras, máquinas de fax, copiadoras, impresoras, trituradoras de papel, etc. 3. Pulverice hasta que el artículo esté limpio y deje secar. Utilice un tubo prolongador para limpieza detallada. 4. Utilice un abrasivo en superficies con depósitos grandes de carbono o corrosión - remueva los residuos con pulverización intermitente antes de reactivar el sistema. 5. El producto puede juntarse y acumularse en áreas que no estén a la vista. Use un detector de gas combustible para asegurar que no queden vapores inflamables antes de la reactivación. 6. El mantenimiento programado prolonga la vida útil de los componentes y ayuda a eliminar depósitos que puedan causar pérdidas. Utilice mediciones de resistencia para determinar la frecuencia de la aplicación.**

**Danger:** Flammable aerosol. Contains gas under pressure: may explode if heated. May displace oxygen and cause rapid suffocation. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye 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.

Pressurized container. Do not pierce or burn, even after use. Use with adequate ventilation. 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, mist or vapor. Do not eat, drink or smoke when using this product. Wear protective gloves and eye/face protection. Wash thoroughly after handling. 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. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phosgene. 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. Rinse mouth. 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. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Contains CO2@ 201 (proprietary), carbon dioxide 124-38-9, decalfluoropentane 138495-42-8, CO2@ 202 (proprietary), and methanol 67-56-1. 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 metal can will conduct electricity. Keep away from all live electrical sources. Failure to observe this warning may result in serious injury and/or flash fire.

**Peligro:** Aerosol inflamable. Contiene gas a presión; puede explotar si se calienta. Puede desplazar al oxígeno y causar asfíxia rápidamente. Nocivo en caso de ingestión. Puede ser mortal en caso de ingestión y de penetración en las vías respiratorias. Provoca irritación cutánea. Provoca irritación ocular grave. Puede provocar somnolencia o vértigo.

**Consejos de prudencia:** Mantener alejado del calor/de chispas/de llamas al descubierto/de superficies calientes. - No fumar. No vaporizar sobre una llama al descubierto o cualquier otra fuente de ignición. Recipiente a presión: No perforar ni quemar, incluso después del uso. Usar con ventilación adecuada. Abra las puertas y ventanas y utilice otros medios para asegurar la provisión de aire fresco al utilizar el producto y mientras se esté secando. Si presenta algunos de los síntomas enumerados en esta etiqueta, aumente la ventilación o deje el área. No respirar gas, niebla o vapor. No comer, beber o fumar mientras se manipula este producto. Usar guantes de protección y protección para los ojos/la cara. Lavese cuidadosamente después de la manipulación. Almacenar en un lugar bien ventilado. Guardar bajo llave. Proteger de la luz solar. No exponer a una temperatura superior a 50 °C/122 °F. Al exponerlo al calor extremo, los vapores pueden descomponerse en gases corrosivos y tóxicos como el fluoruro de hidrógeno, el cloruro de hidrógeno y, posiblemente, el fosgeno. 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 provocar el vomito. Enjuagarse la boca. En caso de contacto con la piel: Lavar con abundante agua. Si ocurre irritación de la piel: Buscar atención médica. Quitar la ropa contaminada y lavarla antes de volverla a usar. 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. En caso de contacto con los ojos: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado. Si persiste la irritación de los ojos: Buscar atención médica.

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 de metal puede conducir la electricidad. Manténgala alejada de todas las fuentes eléctricas vivas. El incumplimiento de esta advertencia puede resultar lesiones graves y/o incendio repentino.

VOC Category: Electronic Cleaner VOC Limit: 75% Not for use in California.

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# Electronic Component Cleaner

## Limpiador de Componentes Eléctricos

### Precision Cleaner

### Limpiador de contacto



Nonfood Compounds  
Program Listed: K2  
Reg.# 139724



**No. 02200**  
**Net Wt./Peso Neto**  
**13 oz (368 g)**

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

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

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:** Electronic Component Cleaner

**Product code:** 02200

**Recommended use:** Precision electronics 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

<b>Physical hazards</b>	Flammable aerosols (Category 2) Gases under pressure (Compressed gas)
<b>Health hazards</b>	Acute toxicity, oral (Category 4) Skin corrosion/irritation (Category 2) Serious eye damage/eye 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	%
C02ol@ 201	Proprietary	80 – 90
carbon dioxide	124-38-9	5 – 10
decafluoropentane	138495-42-8	5 – 10
C02ol@ 202	Proprietary	1 – 3
methanol	67-56-1	< 0.2

(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. Give artificial respiration if necessary. Do NOT give epinephrine (adrenaline). Get medical attention immediately.

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

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion:** Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If victim is fully conscious, give 2 glasses of water.

**Most important symptoms/effects:** Aspiration hazard. Suffocation hazard. Skin and eye irritant. Narcotic effects.

**Special treatment needed:** Treat symptomatically. Catecholamine drugs such as adrenaline should be used with special caution. Keep victim under observation. Symptoms may be delayed.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Powder. Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** None known.

**Specific hazards:** Contents under pressure. Pressurized container may rupture when exposed to heat or flame. Vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phosgene.

**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:** Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Do not enter storage areas or confined spaces unless adequately ventilated.

**Containment and cleaning up:** Eliminate all ignition sources. Keep combustibles away from spilled material. Wipe up with absorbent material. Prevent entry into waterways, sewer, basements or confined areas. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

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

**Storage:** Store in a cool, dry place (below 122°F/50°C) and out of direct sunlight. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

Components	Type	Value
carbon dioxide	TWA	5000 ppm
methanol	TWA	200 ppm
trans-1,2-dichloroethylene	TWA	200 ppm

**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:** Use protective gloves such as nitrile, neoprene, PVA, or Viton®. Wear appropriate clothing to prevent skin contact.

**Respiratory protection:** If needed, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

## 9. Physical and chemical properties

**Appearance:** Clear colorless liquid.

**Odor threshold:** Not available.

**Melting point/freezing point:** -157 °F (-105 °C)

**Flash point:** None (Tag Closed Cup)

**Explosive limit - lower (%):** 2

**Vapor pressure:** 3324 hPa

**Relative density:** 1.27

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

**Auto-ignition temperature:** 500 °F (260 °C)

**Decomposition temperature:** Not available.

**Viscosity:** Not available.

**VOC (Weight %):** 57.5% (6.0 lbs/gal, 723.1 g/l)

**Odor:** Slight ethereal.

**pH:** Not available.

**Initial boiling point:** 104 °F (40 °C)

**Evaporation rate:** Fast.

**Explosive limit - upper (%):** 19.9

**Vapor density:** > 1 (Air = 1)

**Solubility(ies):** Slight in water

## 10. Stability and reactivity

**Reactivity:** Non-reactive

**Chemical stability:** Stable

**Possibility of hazardous reactions:** No

**Conditions to avoid:** Heat, flames and sparks. Incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Strong bases. Strong acids. Alkali or alkaline earth metals.

**Hazardous decomposition products:** Carbon oxides. Carbonyl halides. Hydrogen fluoride. Hydrogen chloride. Phosgene. Formaldehyde.

## 11. Toxicological information

**Information on likely routes of exposure:**

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Inhalation:** Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Skin contact:** Causes skin irritation.

**Eye contact:** Causes serious eye irritation.

**Information on toxicological effects:**

**Acute toxicity:** May be fatal if swallowed and enters airways. Narcotic effects. Skin and eye irritation.

**Respiratory sensitization:** Not a respiratory sensitizer.

**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 be hazardous by OSHA criteria.

**Aspiration hazard:** If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.

**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:** 9/7/2016

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