

# CRC Contact Cleaner 2000<sup>®</sup> VC Precision Cleaner

**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<sup>®</sup>. 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<sup>®</sup>. Si tiene dudas, llame al fabricante del equipo. No utilizar en equipos electrónicos sensibles, tales como DVDs, computadoras, máquinas de fax, copiadoras, impresoras, trituradoras de papel, etc. 3. Pulverice hasta que el artículo esté limpio y deje secar. 4. Utilice un tubo prolongador para limpieza detallada. 5. 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 periódico 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:** Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause drowsiness or dizziness.

**Precautionary Statements:** Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. 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. Avoid breathing mist or vapor. Avoid breathing gas. 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. Wash thoroughly after handling. Wear eye/face protection. Store locked up. Protect from sunlight. Store in a well-ventilated place. 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 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 1,1,1,2-Tetrafluoroethane (811-97-2), C020<sup>®</sup> 401 (Proprietary) and Decafluoropentane (138495-42-8). This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. 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. Do not touch can to live electrical sources including battery terminals, solenoids, electrical panels and other electronic components. Fallará to observe this warning may result in serious injury from electrical shock.

**Peligro:** 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 ocular grave. Puede provocar somnolencia o vértigo.

**Consejos de prudencia:** No perforar ni incinerar el envase. No exponer al calor ni almacenar a temperaturas superiores a 49°C/120°F. Al exponer al calor extremo, los vapores pueden descomponerse en gases corrosivos y tóxicos como el fluoruro de hidrógeno, cloruro de hidrógeno y, posiblemente, el fósforo. Evite la inhalación de neblina o vapor. Evite la inhalación de gases. 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 este secando. Si presenta algunos de los síntomas enumerados en esta etiqueta, aumente la ventilación o deje el área. Lávese cuidadosamente después de la manipulación. Use protección para los ojos/la cara. No dispersar en el medio ambiente. Guardar bajo llave. Proteger de la luz solar. Almacenar en un lugar bien ventilado. 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 inhalación: Transportar la persona al aire libre y mantenerla en una posición que le facilite la respiración. Llamar a un CENTRO DE TOXICOLOGÍA 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: Busque atención médica.

Este producto contiene un componente químico que en el Estado de California se conoce como una causa de defectos de nacimiento u otros daños reproductivos. 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:** Este recipiente es conductor de electricidad. Mantenga la lata alejada de toda fuente eléctrica viva, incluyendo terminales de batería, solenoides, paneles eléctricos y otros componentes electrónicos. El no respetar estas advertencias puede causar heridas graves por descargas eléctricas.



Nonfood Compounds  
Program Listed  
Category Code: K2  
Reg.# 140125



VC Category: Electronic Cleaner | VOC Limit: 75%

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800-521-3168 (Technical Information) • 800-272-4620 (Customer Service) • 215-442-6280 (SDS) www.crcindustries.com



# Contact Cleaner 2000<sup>®</sup> VC Precision Cleaner Limpiador de Precisión

No Flash Point  
No Residue

Sin punto de inflamación  
No deja residuo

**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.  
PROVOCA IRRITACIÓN OCULAR.  
CONTENIDO BAJO PRESIÓN.  
MANTENGA FUERA DEL  
ALCANCE DE LOS NIÑOS.  
Lea las advertencias en el dorso.**

**No. 02240**  
**Net Wt./Peso Neto**  
**13 oz. (369 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 dóblala hacia atrás. Al terminar, vuelva a pegar la etiqueta. No la retire completamente hasta que la lata esté vacía.

## 1. Identification

**Product identifier:** Contact Cleaner 2000® VC Precision Cleaner  
**Product code:** 02240  
**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

**Physical hazards:** Gases under pressure (Liquefied gas)  
**Health hazards:** Serious eye damage/eye irritation (Category 2A)  
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	%
1,1,1,2-Tetrafluoroethane	811-97-2	40 – 50
CÖzol® 401	Proprietary	40 – 50
Decafluoropentane	138495-42-8	5 – 10

(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). Call a POISON CENTER or doctor/physician.  
**Skin contact:** Rinse skin with water/shower. Get medical attention if irritation develops and persists. 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:** Stinging, tearing, redness, swelling, and blurred vision. 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. Foam. 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. 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. 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. Wipe up with absorbent material. Prevent entry into waterways, sewer, basements or confined areas. Use appropriate containment to avoid environmental contamination. Contact local authorities in case of spillage to drain/aquatic environment.

## 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
Trans-1,2-dichloroethylene	TWA	200 ppm
1,1,1,2-Tetrafluoroethane	TWA	1000 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.

## 9. Physical and chemical properties

**Appearance:** Clear colorless liquid.  
**Odor:** Slight ethereal.  
**Odor threshold:** Not available.  
**pH:** Not available.  
**Melting point/freezing point:** -112 °F (-80 °C)  
**Initial boiling point:** 104 °F (40 °C)  
**Flash point:** None (Tag Closed Cup)  
**Evaporation rate:** Fast.  
**Explosive limit - lower (%):** 2  
**Explosive limit - upper (%):** 19.9  
**Vapor pressure:** 3508 hPa  
**Vapor density > 1 (Air = 1):**  
**Relative density:** 1.25  
**Solubility(ies):** Slight in water  
**Partition coefficient (n-octanol/water):** Not available.  
**Auto-ignition temperature:** 860 °F (460 °C)  
**Decomposition temperature:** Not available.  
**Viscosity:** Not available.  
**VOC (Weight %):** 30.9% (3.2 lbs/gal, 388.2 g/l)

## 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:** May be fatal if swallowed and enters airways.  
**Inhalation:** Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.  
**Skin contact:** Prolonged skin contact may cause temporary irritation.  
**Eye contact:** Causes serious eye irritation.  
**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 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 dispersed 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, non-flammable, 2.2, limited quantity

## 15. Regulatory information

**SARA 313:** None  
See full SDS for additional information

## 16. Other information

**Issue date:** 6/13/2014

**CRC #657B**

**Version # 01**