

# CRC® CO<sup>®</sup> Contact Cleaner

## DIRECTIONS: Read entire label before using this product.

1. Use caution when using on or around energized equipment. 2. For optimum results, prepare heavily soiled or corroded surfaces by buffing with a mild abrasive or by spraying CRC Duster™. 3. Tilt surface and spray until clean. 4. Use an intermittent spray pattern to dislodge trapped particles and allow excess cleaner to run off. 5. When necessary, repeat step 4 until desired cleanliness is attained.

## INSTRUCCIONES: Lea la etiqueta completa antes de usar este producto.

1. Actúe con cautela al utilizar en un equipo conectado a la energía eléctrica o cerca de éste. 2. Para obtener resultados óptimos, pule con un abrasivo suave las superficies que presenten gran cantidad de suciedad o corrosión, o rocíe con el aerosol antihumedad Duster™ de CRC. 3. Incline la superficie y rocíe hasta que quede limpio. 4. Utilice un patrón de rociado intermitente para quitar residuos que hayan quedado atrapados y permita que drene el excedente. 5. Cuando sea necesario, repita el paso 4 hasta obtener la limpieza deseada.

## Precautionary Statements

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. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride. Observe good industrial hygiene practices. Store away from incompatible materials. Do not store container above 100 °F/38 °C. Dispose of waste and residues in accordance with local authority requirements.

**First Aid:** Wash hands after handling.

Contains decafluoropentane (138495-42-8), methyl nonafluorobutyl ether (163702-07-6), and methyl nonafluoroisobutyl ether (163702-08-7).

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. Failure to observe this warning may result in serious injury from electrical shock.

## Consejos de prudencia

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. Al exponerlo al calor extremo, los vapores pueden descomponerse en gases corrosivos y tóxicos como el fluoruro de hidrógeno. Respete las normas para un manejo correcto de los químicos. Conservarse alejado de materiales incompatibles. No guarde contenedores por encima de 100 °F/38 °C. Eliminar los desperdicios y residuos de conformidad con la normativa promulgada por las autoridades locales.

**Primeros Auxilios:** Lávese las manos después del uso.

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.

**NOT FOR USE IN CALIFORNIA.**

©2016 CRC Industries, Inc., 885 Luso Dr., Warminster, PA 18974  
800-521-3188 (Technical Information)  
800-272-4620 (Customer Care)  
215-442-6260 (SDS)

VOC Category: Electronic Cleaner VOC Limit: 75%

www.crcindustries.com  
Made in U.S.A. 16A CRC# 508C/D



# CO<sup>®</sup> Contact Cleaner

## Limpiador de Contacto CO<sup>®</sup>

Non-Chlorinated  
Non-Flammable  
Plastic Safe  
No VOCs

No Clorado  
No Inflamable  
Inocuo para el Plástico  
Sin VOCs



Nonfood Compounds  
Program Listed  
Category Code: K2  
Reg.# 111205



No. 02017

Net Contents/  
Contenido Neto  
10 fl oz (296 mL)

KEEP AWAY FROM CHILDREN.  
Read warnings on back panel.

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:** CO® Contact Cleaner

**Product code** 02017

**Recommended use** Precision electronics cleaner

**Restrictions** None known.

**Manufactured 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** Not classified.

**Health hazards** Not classified.

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

## 3. Composition/information on ingredients

**Hazardous components**

Chemical name	CAS number	%
decafluoropentane	138495-42-8	0 – 60
methyl nonafluorobutyl ether	163702-07-6	0 – 30
methyl nonafluoroisobutyl ether	163702-08-7	0 – 30

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

## 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

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

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects** Direct contact with eyes may cause temporary irritation.

**Special treatment needed** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water fog, foam, dry chemical powder, carbon dioxide (CO2).

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

**Specific hazards** During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.

**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. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Containment and cleaning up** Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Handling** Observe good industrial hygiene practices.

**Storage** Store away from incompatible materials.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

Components	Type	Value
methyl nonafluorobutyl ether	TWA	750 ppm
methyl nonafluoroisobutyl ether	TWA	750 ppm

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used.

**Individual protection measures:**

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

**Skin protection** Wear protective gloves such as neoprene, nitrile and PVA.

**Respiratory protection** If needed, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Wear positive pressure self-contained breathing apparatus (SCBA) in case of emergency.

## 9. Physical and chemical properties

**Appearance** Clear colorless liquid.

**Odor** Ethereal and sweetish odor.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -211 °F (-135 °C)

**Initial boiling point** 131 °F (55 °C)

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

**Evaporation rate** Very fast.

**Flammability:**

**Explosive limit - lower (%)** Not applicable.

**Explosive limit - upper (%)** Not applicable.

**Vapor pressure** 291 hPa

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

**Relative density** 1.58

**Solubility(ies)** < 140 ppm

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

**Auto-ignition temperature** 761 °F (405 °C)

**Decomposition temperature** Not available.

**Viscosity** Not available.

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

## 10. Stability and reactivity

**Reactivity** Stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** None known.

**Conditions to avoid** Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** Hydrogen fluoride.

## 11. Toxicological information

**Information on likely routes of exposure:**

**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Prolonged skin contact may cause temporary irritation.

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

**Information on toxicological effects:**

**Acute toxicity** Not classified.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory sensitization** Not expected to cause respiratory sensitization.

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

**Carcinogenicity** No ingredients listed by NTP, IARC or OSHA.

**Aspiration hazard** Not an aspiration hazard.

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

## 12. Ecological information

**See full SDS for additional information**

## 13. Disposal considerations

**Disposal instructions** This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled.

**Hazardous waste code** Not regulated.

## 14. Transport information

**DOT shipping description:** Not regulated.

## 15. Regulatory information

**See full SDS for additional information**

## 16. Other information

**Issue date** 2/17/2016

**CRC #508C/D**

**Version # 03**