

# CRC Precision Plus® Cleaner

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

1. For personal safety, use caution on energized equipment. 2. Spray until clean. Use extension tube for pinpoint cleaning. 3. This product is safe on most plastics but should be tested on a small area before use. 4. Use an abrasive on surfaces with heavy carbon deposits or corrosion – remove residue with intermittent spray before reactivating system. 5. Periodic planned maintenance prolongs life expectancy of components and helps eliminate deposits that cause leakage. Use resistance measurements to determine frequency of application. 6. If removing Krytox®, spray until clean and wipe with dry cloth or rag.

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

1. Por razones de seguridad personal, tenga cuidado con el equipo energizado. 2. Rocíe hasta que quede limpio. Utilice el tubo de extensión para una limpieza precisa. 3. Este producto es seguro sobre la mayoría de los plásticos, pero se debe probar sobre un área reducida antes de utilizarlo. 4. Use un abrasivo sobre las superficies con gran cantidad de depósitos de carbono o corrosión: quite los residuos con un rociado intermitente antes de reactivar el sistema. 5. El mantenimiento planificado periódico prolonga la vida útil de los componentes y ayuda a eliminar los depósitos que causan filtraciones. Use mediciones de resistencia para determinar la frecuencia de la aplicación. 6. Si elimina Krytox®, rocíe hasta que quede limpio y seque con un trapo o paño seco.

### Warning

Contains gas under pressure; may explode if heated.

### 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. 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. 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

Wash hands after handling.

Contains HCFC-225ca/cb (422-56-0,507-55-1), 1,1,1,2-Tetrafluoroethane (811-97-2), CO<sub>2</sub> 101 (Proprietary) and CO<sub>2</sub> 102 (Proprietary). 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.

### Advertencia

Contiene gas a presión; puede explotar si se calienta.

### Consejos de Prudencia

No perforo ni incinere el envase. No exponer al calor ni almacenar a temperaturas superiores a 49°C/120°F. Al exponerlo al calor extremo, los vapores pueden descomponerse en gases corrosivos y tóxicos como el fluoruro de hidrógeno, cloruro de hidrógeno y, posiblemente, el fósgeno. 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. 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

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.

VOC Category: Electronic Cleaner VOC Limit: 75%



# Precision Plus® Cleaner

## Limpiador de Contacto

Safe On Most Plastics

Non-Flammable

Fast Evaporation

Seguro para la Mayoría de los Plásticos

No Inflamable

Rápida Evaporación



Nonfood Compounds  
Program Listed  
Category Code: K2  
Reg.# 136409



No. 02210

Net Wt./Peso Neto  
14 oz. (397 g)

Read warnings on back panel.

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:** Precision Plus® Cleaner  
**Product code:** 02210  
**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:** Gases under pressure (Liquefied gas)  
**Health hazards:** Not classified  
**Label elements (see front side of label)**

## 3. Composition/information on ingredients

### Hazardous components

Chemical name	CAS number	%
HCFC-225cb	507-55-1	40 – 50
1,1,1,2-Tetrafluoroethane	811-97-2	30 – 40
HCFC-225ca	422-56-0	10 – 20
CÖzol® 101	Proprietary	< 1
CÖzol® 102	Proprietary	< 1

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

## 4. First-aid measures

**Inhalation:** If high concentrations are inhaled, immediately remove to fresh air. Call a physician.  
**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:** If swallowed, do NOT induce vomiting. Call a physician if necessary.  
**Most important symptoms/effects:** Direct contact with eyes may cause temporary irritation.  
**Special treatment needed:** Provide general supportive measures and treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Use extinguishing measures appropriate for the surrounding environment.  
**Unsuitable extinguishing media:** None known.  
**Specific hazards:** Contents under pressure. At high temperatures, this product can decompose to form hydrogen fluoride (HF), but HF will only accumulate with continuous exposure to excessive heat in a sealed vessel.  
**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

## 6. Accidental release measures

**Personal precautions:** Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Ensure adequate ventilation. Avoid breathing vapor.  
**Containment and cleaning up:** Remove sources of ignition. Keep combustibles away from spilled material. Stop the flow of material, if this is without risk. Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. Avoid release to the environment.

## 7. Handling and storage

**Handling:** Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray near a flame or other sources of ignition. Wear appropriate protective equipment. Avoid breathing vapor. Avoid prolonged exposure. Wash thoroughly after handling.  
**Storage:** Store in a cool, dry place (below 120°F/49°C) and out of direct sunlight.

## 8. Exposure controls/personal protection

Components	Type	Value
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:** Wear protective gloves such as nitrile or neoprene.  
**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:** Slight ethereal.  
**Odor threshold:** Not available.  
**pH:** Not available.  
**Melting point/freezing point:** -204 °F (-131 °C)  
**Initial boiling point:** 129 °F (54 °C)  
**Flash point:** None (Tag Closed Cup)  
**Evaporation rate:** 0.9 (Ether = 1)  
**Explosive limit - lower (%)** Not applicable.  
**Explosive limit - upper (%)** Not applicable.  
**Vapor pressure:** 2469 hPa  
**Relative density:** 1.45  
**Solubility(ies):** negligible in water  
**Partition coefficient (n-octanol/water):** Not available.  
**Auto-ignition temperature:** Not available.  
**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. At temperatures above 572°F / 300°C, this product can decompose to form hydrogen fluoride. Incompatible materials.  
**Incompatible materials:** Alkali metals. Alkaline earth metals. Powdered metal.  
**Hazardous decomposition products:** Hydrochloric acid. Hydrofluoric acid. Carbonyl halides.

## 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.  
**Symptoms related to the physical, chemical and toxicological characteristics:** No adverse effects are expected.  
**Information on toxicological effects:**  
**Acute toxicity:** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.  
**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:** 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. Empty containers may 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 HCFC-225ca/cb**  
See full SDS for additional information

## 16. Other information

Issue date: 8/1/2014

CRC #413B/C

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