MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: CO® Contact Cleaner - Aerosol

Product Number (s): 02016, 72016, 82016

Manufactured By: CRC Industries, Inc. (215) 674-4300

885 Louis Drive, Warminster, PA 18974

24-Hour Emergency Information: CHEMTREC (800) 424-9300

Section 2: Composition/Information on Ingredients

| Component | CAS | ACGIH | OSHA | OTHER | % |
|-------------------------------|-------------|-------|------|----------------------|-------|
| _ | NUMBER | TLV | PEL | LIMITS | |
| 1-Methoxy-nonafluorobutane | 163702-07-6 | NE | NE | 750 ppm^1 | 0-60 |
| 1-Methoxy-nonaisofluorobutane | 163702-08-7 | NE | NE | 750 ppm ¹ | 0-60 |
| Decafluoropentane | 138495-42-8 | NE | NE | NE | 0-60 |
| 1,1,1,2-Tetrafluoroethane | 811-97-2 | NE | NE | 1000 ppm | 30-50 |

¹ Total for all isomers

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: Colorless liquid.

Warning: Contents Under Pressure.

Potential Health Effects:

Inhalation: Drowsiness, lightheadedness. High levels may cause cardiac arrhythmias.

Eyes: Irritation

Skin: Defatting, dermatitis
Ingestion: Gastrointestinal discomfort

Carcinogenicity: OSHA: No IARC: No NTP: No

Chronic Overexposure: Skin irritation on repeated contact.

Medical Conditions Aggravated by Exposure: Impaired cardiovascular function such as cardiac

arrhythmias may be sensitized by inhalation.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Give artificial respiration if necessary.

Eyes: Flush with large amounts of water for 15 minutes.

Skin: Remove contaminated clothing and wash area with soap and water.

Ingestion: Call a physician. Do not induce vomiting.

Section 5: Fire-Fighting Measures

Method: TCC, TOC Flashpoint: None LEL: ND UEL: ND

Extinguishing Media: Not needed Hazardous Combustion Products: CO, CO₂, HF

Fire-fighting Instructions: Remove containers from fire area if possible. Use self-contained

breathing apparatus for fire fighting. Aerosol cans may explode if heated

above 120°F.

Flammability: 0 Reactivity: NFPA: Health: 1

HMIS: Health: 1 Flammability: 0 Reactivity: 1 PPE: B

Section 6: Accidental Release Measures

Spill/Leak Procedures: Usually not a problem with aerosols. Area should be ventilated. Absorbent should be used to pick up excess material. All used and unused product should be disposed of in accordance with federal, state and local regulations.

Section 7: Handling and Storage

Handling Procedures: Store in a cool, dry area. Aerosol cans must be maintained below 120°F to prevent cans from exploding.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Adequate to prevent accumulation of vapors. Use mechanical means if necessary to maintain levels below the exposure limits. If working in a confined space, follow applicable OSHA regulations.

Respiratory: Use NIOSH/MSHA compliant respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.

Protective Clothing/Equipment: Wear chemically protective gloves and safety glasses. Use a splash apron and boots if splashing occurs.

Section 9: Physical & Chemical Properties

Appearance & Odor: Physical State: Liquid Colorless liquid

1.50-1.60 Boiling Point: 55-61
Vapor Pressure: > 200
Vapor Density (air = 1) > air Specific Gravity: 55-61°C Freezing Point: > 200 mm Hg ND

Evaporation Rate: Fast

Solubility: NA Slight solubility in water. Volatile Organic Compounds: %: (0)Exempt g/L: (0)Exempt lbs./gal: (0)Exempt ------

Section 10: Stability and Reactivity

Stability: Stable Hazardous Polymerization: No

Chemical Incompatibilities: Strong oxidizers.

Materials to Avoid: Powdered metals such as aluminum, magnesium, calcium, zinc,

strong alkali.

Hazardous Decomposition Products: Hydrofluoric Acid and possibly Carbonyl Fluoride.

Section 11: Toxicological Information

Product Name: CO® Contact Cleaner - Aerosol

Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

Section 12: Ecological Information

No data available. Ecotoxicity:

Environmental Fate: No data available for biodegradation.

Section 13: Disposal Considerations

Disposal: This material if discarded may be hazardous waste under U.S. EPA RCRA regulations. All disposal activities must comply with federal, state and local regulations. Contact your local or state environmental agency for specific rules. Do not dump into sewers, on the ground or into any body of water. ______

Section 14: Transportation Information

Shipping Name: Consumer Commodity

Hazard Class: ORM-D UN Number: NA Packing Group: NA

Label: NA Placard: NA

Special Provisions: NA

Section 15: Regulatory Information

TSCA: All components are either listed under TSCA or are exempt.

SARA Title III: Section 311/312: Acute, Pressure Section 313*: None

CERCLA/Superfund (RO): NA Extremely Hazardous Substances: No California Prop 65: No

* See section 2 for percentage

Section 16: Additional Information

Prepared By: Michelle Milburn Date: November 10, 2003

Technical Information: (800) 521-3168 CRC #: 508A-D

This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

Chemical Abstract Service Not Applicable CAS: $NA \cdot$ Not Determined ppm: Parts per Million ND: TCC: Tag Closed Cup NE: Not Established LEL: Lower Explosive Limit g/L: grams per Liter Upper Explosive Limit lbs./gal: pounds per gallon UEL: Personal Protection Equipment Reportable Quantity PPE: RQ:

Tag Open Cup TOC: