## **Section 1: Product & Company Identification**

Product Name: HF™ Contact Cleaner (aerosol)

Product Number (s): 03125

Product Use: Electronic Cleaner

**Manufacturer / Supplier Contact Information:** 

In United States:In Canada:CRC Industries, Inc.CRC Canada Co.885 Louis Drive2-1246 Lorimar Drive

Warminster, PA 18974 Mississauga, Ontario L5S 1R2 Cold

<u>www.crcindustries.com</u> <u>www.crc-canada.ca</u> 1-215-674-4300 (General) 1-905-670-2291

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Mexico:

CRC Industries Mexico Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

<u>www.crc-mexico.com</u> 52-444-824-1666

24-Hr Emergency - CHEMTREC: (800) 424-9300 or (703) 527-3887

### Section 2: Hazards Identification

#### **Emergency Overview**

**DANGER:** Flammable. Harmful or Fatal if Swallowed. Contents Under Pressure.

Appearance & Odor: Clear liquid, slight hydrocarbon odor.

#### **Potential Health Effects:**

**ACUTE EFFECTS:** 

EYE: May cause mild irritation, redness and tearing. Not expected to be an eye irritant.

SKIN: May cause mild irritation with extended contact. Not expected to be a skin irritant. No harmful effects

from skin absorption have been reported.

INHALATION: Expected to have a low degree of toxicity by inhalation. Effects of overexposure may include irritation of

the nose and throat, transient excitation followed by signs of nervous system depression (headache,

drowsiness, dizziness, loss of coordination, disorientation and fatigue).

INGESTION: Low degree of toxicity by ingestion. May cause irritation of the digestive tract, nausea and vomiting.

Main hazard is aspiration of material into lungs during swallowing or vomiting. This can lead to

chemical pneumonitis (inflammation of the lungs) and possible death.

CHRONIC EFFECTS: Inadequate evidence available to evaluate cancer hazard. Reports have associated repeated

and prolonged overexposure to solvents with permanent brain and nervous system damage.

TARGET ORGANS: No data available

Medical Conditions Aggravated by Exposure: Skin disorders, respiratory (asthma-like disorders)

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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## **Section 3: Composition/Information on Ingredients**

COMPONENT	CAS NUMBER	% by Wt.	
Hydrotreated light distillate	64742-47-8	90 – 99	
Carbon dioxide	124-38-9	1 - 5	

### **Section 4: First Aid Measures**

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if

irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If

breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting or give anything by mouth due to aspiration hazard. If victim is drowsy or

unconscious and vomiting, place on the left side with the head down. Contact a physician

immediately.

Note to Physicians: Aspiration hazard. Treat symptomatically.

### **Section 5: Fire-Fighting Measures**

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions.

(See 16 CFR 1500.3(c)(6))

Flash Point: 205°F / 96°C (PMCC) Upper Explosive Limit: 5.0 Autoignition Temperature: ND Lower Explosive Limit: 0.7

Fire and Explosion Data:

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam or water spray is recommended

Products of Combustion: Oxides of carbon

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors

may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for

protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can

rupture in the heat of a fire.

### **Section 6: Accidental Release Measures**

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into

sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space

or limited air circulation area, clean-up workers should wear appropriate

**Product Number (s): 03125** 

respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

## **Section 7: Handling and Storage**

Handling Procedures: Do not store near possible sources of ignition. Provide ventilation during use. Avoid inhaling

vapors. Avoid contact with skin and eyes. Use caution in confined spaces. Wash hands after use and before consuming food. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F /

49°C to prevent cans from rupturing. Make sure storage area is properly ventilated.

Aerosol Storage Level: III

## **Section 8: Exposure Controls/Personal Protection**

#### **Exposure Guidelines:**

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Hydrotreated light distillate	NE	NE	NE	NE	NE		
Carbon dioxide	5000	30000 (v)	5000	30000	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

#### **Controls and Protection:**

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally

preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA

regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls

are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and

for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid

contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is

prolonged or repeated contact of liquid with skin.

# **Section 9: Physical and Chemical Properties**

Physical State: liquid

Color: clear

Odor: slight hydrocarbon
Odor Threshold: ND
Specific Gravity: 0.79

Initial Boiling Point: 435°F / 224°C

#### Product Name: HF™ Contact Cleaner (aerosol)

Freezing Point: ND

Vapor Pressure: < 0.1 mmHg @ 68°F / 20°C Vapor Density: 4.5 (air = 1)

Evaporation Rate: slow Solubility: insoluble in water

Coefficient of water/oil distribution: ND

pH: NA

Volatile Organic Compounds: wt %: 0 g/L: 0 lbs./gal: 0

## **Section 10: Stability and Reactivity**

Stability: Stable

Conditions to Avoid: Potential sources of ignition; temperature extremes

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Oxides of carbon

Possibility of Hazardous Reactions: No

## **Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

#### **Acute Toxicity:**

<u>Component</u>	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Hydrotreated light distillate	> 5 g/kg	> 2 g/kg	> 5 mg/L/4H
Carbon dioxide	No data	No data	470,000 ppm/30M

#### **Chronic Toxicity:**

	OSHA	IARC	NTP		
<u>Component</u>	Carcinogen	Carcinogen	Carcinogen	<u>Irritant</u>	Sensitizer
Hydrotreated light distillate	No	No	No	No	No
Carbon dioxide	No	No	No	No	No

E – Eye S – Skin R - Respiratory

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Reproductive Toxicity:
Teratogenicity:
Mutagenicity:
Synergistic Effects:
No information available
No information available
No information available

## **Section 12: Ecological Information**

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: hydrotreated light distillate - 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]

Persistence / Degradability:
Bioaccumulation / Accumulation:
Mobility in Environment:

No information available
No information available

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## **Section 13: Disposal Considerations**

Waste Classification: The dispensed liquid product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 –

261.33)

If this material is mixed with other materials, the resulting waste should be evaluated for waste

classification. Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

## **Section 14: Transport Information**

US DOT (ground): Consumer Commodity, ORM-D

ICAO/IATA (air): Consumer Commodity, ID8000, 9

IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity

Special Provisions: None

## **Section 15: Regulatory Information**

#### **U.S. Federal Regulations:**

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard Yes

Reactive Hazard No Release of Pressure Yes Acute Health Hazard No Chronic Health Hazard No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements

of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of

1986 and 40 CFR Part 372:

None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

#### **U.S. State Regulations:**

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California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of

California to cause cancer, birth defects or other reproductive harm:

None

Consumer Products VOC Regulations: This product complies with Consumer Products VOC regulations as an

Electronic Cleaner.

State Right to Know:

New Jersey: 124-38-9 Pennsylvania: 124-38-9 Massachusetts: 124-38-9 Rhode Island: 124-38-9

#### **Canadian Regulations:**

#### Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, B5

<u>Canadian DSL Inventory</u>: All ingredients are either listed on the DSL Inventory or are exempt.

#### **European Union Regulations:**

<u>RoHS Compliance</u>: This product is compliant with Directive 2002/95/EC of the European Parliament and of the

Council of 27 January 2003. This product does not contain any of the restricted substances as

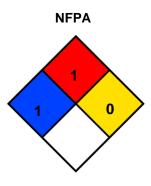
listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

### **Section 16: Other Information**

HMIS® (II)		
Health:	1	
Flammability:	1	
Reactivity:	0	
PPE:	В	

Ratings range from 0 (no hazard) to 4 (severe hazard)



Prepared By: Michelle Rudnick

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Changes since last revision: Section 13: Disposal considerations

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. 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. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

### **Product Number (s): 03125**

**Product Name:** HF™ Contact Cleaner (aerosol)

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List

g/L: grams per Liter

HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer

IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Dangerous Goods
 IMO: International Maritime Organization

lbs./gal: pounds per gallon LC: Lethal Concentration

LD: Lethal Dose

NA: Not Applicable ND: Not Determined

NIOSH: National Institute of Occupational Safety & Health

NFPA: National Fire Protection Association NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PMCC: Pensky-Martens Closed Cup PPE: Personal Protection Equipment

ppm: Parts per Million

RoHS: Restriction of Hazardous Substances

STEL: Short Term Exposure Limit

TCC: Tag Closed Cup
TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information

System