

MATERIAL SAFETY DATA SHEET

PRODUCT NAME Electronic Cleaner (Aerosol) #05013,	# MSDS 5013
MANUFACTURED BY: CRC CHEMICALS	05014
Phone (215) 674-4300	
885 LOUIS DRIVE, WARMINSTER, PA. 18974	

1. INGREDIENTS	CAS #	ACGIH TLV	OSHA PEL	Other Limits	%
Trichlorotrifluoroethane	76-13-1	1000	1000		75
Chlorodifluoromethane	75-45-6	1000		1000	25
* This chemical is listed in the Toxic Chemical List, found in section 313 of the Emergency Planning and Community - Right-To-Know Act (SARA Title III) and are subject to release inventory reporting under the act.					

2. PHYSICAL DATA (Does not include Chlorodifluoromethane propellant)

Specific Gravity 1.57	Vapor Pressure 5.5 psia 70° F	% Volatile 100
Boiling Point 117.6° F	Evaporation Rate 0.3 (Carbon tet = 1)	
Freezing Point -35.7° F	Vapor Density 6.5 (air =1)	

Appearance and Odor Colorless liquid

Solubility Slight solubility in water - Soluble in many organic liquids

3. FIRE AND EXPLOSION DATA

Flashpoint None	Method TCC, TOC	Flammable Limits None
Extinguishing Media Not needed	LEL —	UEL —
Unusual Hazards Aerosol containers can explode if contents are heated to more than 130° F		

4. REACTIVITY AND STABILITY

Stability Very stable

Hazardous decomposition products Halogens, halogen acids, possibility of phosgene (Thermal)

Materials to avoid Powdered metals such as aluminum, magnesium, calcium, zinc

5. PROTECTION INFORMATION

Ventilation Maintain concentration below TLV.

Respiratory Self-contained breathing apparatus above TLV.

Gloves Neoprene

Eye & Face Safety goggles

Other Protective Equipment Protective clothing only if there is repeated contact with liquid.

6. HEALTH HAZARD DATAPrimary Routes of Entry Inhalation and skin

Signs and Symptoms of Exposure

1. Acute Overexposure Inhalation - Drowsiness, lightheadedness possible cardiac arrhythmias at high concentration. Skin - defatting action, may cause dermatitis. Eyes - may irritate eyes.
2. Chronic Overexposure May cause skin irritation with repeated skin contact.

Medical Conditions Generally Aggravated by Exposure Impaired cardiovascular function such as cardiac arrhythmias might be sensitized by inhalation.

Chemical Listed as Carcinogen or Potential Carcinogen

National Toxicology Program

Yes
No

IARC Monographs

Yes
No

OSHA

Yes
No

Emergency and First Aid Procedures (if symptoms persist call a physician)

1. Inhalation Remove to fresh air - apply artificial respiration if necessary
2. Eyes Flush with large amounts of water
3. Skin Wash with water
4. Ingestion Induce vomiting - call a physician

7. SPILL OR LEAK PROCEDURES

Precautions to be taken in Handling and Storage

Store in a cool dry area

Steps to be taken in case

Materials is released or spilled

Due to high volatility material quickly evaporates.Ventilate area, evacuate personnel until concentration is below TLV or use self-contained breathing apparatus.Waste Disposal If possible pump into drums for reclamation.**8. SPECIAL PRECAUTIONS AND USE DIRECTIONS**Aerosol containers may explode if exposed to temperatures over 130° F.Vapors are very heavy and will collect in low areas. Oxygen would be displaced and asphyxiation could result. Good ventilation is a must for low areas and confined spaces.PREPARED BY: Allen B. ReedORIGINAL DATE OR DATE OF REVISION 1/90