



## Material Safety Data Sheets

### Division of Facilities Services

## DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

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### ZERO MIST CIRCUIT COOLER 10-8667

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### Section 1 - Product and Company Identification ZERO MIST CIRCUIT COOLER 10-8667

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**Product Identification:** ZERO MIST CIRCUIT COOLER 10-8667

**Date of MSDS:** 10/06/1989 **Technical Review Date:** 03/09/1999

**FSC:** 6830 **NIIN:** 00-994-5144

**Submitter:** D DG

**Status Code:** C

**MFN:** 01

**Article:** N

**Kit Part:** N

### Manufacturer's Information

**Manufacturer's Name:** GC ELECTRONICS CO,SUB OF HOUSEHOLD INTERNATIONAL C

**Post Office Box:** 1209

**Manufacturer's Address1:** 1801 MORGAN ST

**Manufacturer's Address2:** ROCKFORD, IL 61105-1209

**Manufacturer's Country:** US

**General Information Telephone:** 815-968-9661

**Emergency Telephone:** 815-968-9661

**Emergency Telephone:** 815-968-9661  
**MSDS Preparer's Name:** VERE HAGEMAN  
**Proprietary:** N  
**Reviewed:** Y  
**Published:** Y  
**CAGE:** EO032  
**Special Project Code:** N

#### Item Description

**Item Name:** DICHLORODIFLUOROMETHANE, TECHNICAL  
**Item Manager:** S9G  
**Specification Number:** NK  
**Type/Grade/Class:** NK  
**Unit of Issue:** CN **Quantitative Expression:** 00000000016OZ  
**Unit of Issue Quantity:** 0  
**Type of Container:** CAN, AEROSOL

#### Contractor Information

**Contractor's Name:** GC ELECTRONICS CO,SUB OF HOUSEHOLD INTERNATIONAL C  
**Post Office Box:** 1209  
**Contractor's Address1:** 1801 MORGAN ST  
**Contractor's Address2:** ROCKFORD, IL 61105-1209  
**Contractor's Telephone:** 815-968-9661  
**Contractor's CAGE:** EO032

#### Contractor Information

**Contractor's Name:** GC THORSEN  
**Contractor's Address1:** 1801 MORGAN STREET  
**Contractor's Address2:** ROCKFORD, IL 61105  
**Contractor's Telephone:** 815-968-9661  
**Contractor's CAGE:** 72653

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#### Section 2 - Composition/Information on Ingredients ZERO MIST CIRCUIT COOLER 10-8667

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**Ingredient Name:** DICHLORODIFLUOROMETHANE (SARA III)  
**Ingredient CAS Number:** 75-71-8 **Ingredient CAS Code:** M  
**RTECS Number:** PA8200000 **RTECS Code:** M  
**=WT: =WT Code:**  
**=Volume: =Volume Code:**  
**>WT: >WT Code:**  
**>Volume: >Volume Code:**  
**<WT: <WT Code:**  
**<Volume: <Volume Code:**  
**% Low WT: % Low WT Code:**  
**% High WT: % High WT Code:**  
**% Low Volume: % Low Volume Code:**  
**% High Volume: % High Volume Code:**  
**% Text:** 70  
**% Enviromental Weight:**  
**Other REC Limits:** N/K  
**OSHA PEL:** 1000 PPM **OSHA PEL Code:** M  
**OSHA STEL:** **OSHA STEL Code:**  
**ACGIH TLV:** 1000 PPM; 9192 **ACGIH TLV Code:** M  
**ACGIH STEL:** N/P **ACGIH STEL Code:**  
**EPA Reporting Quantity:** 5000 LBS

**DOT Reporting Quantity:** 5000 LBS  
**Ozone Depleting Chemical:** 1

**Ingredient Name:** TRICHLOROFLUOROMETHANE (CFC-11) (SARA III)  
**Ingredient CAS Number:** 75-69-4 **Ingredient CAS Code:** M  
**RTECS Number:** PB6125000 **RTECS Code:** M  
**=WT: =WT Code:**  
**=Volume: =Volume Code:**  
**>WT: >WT Code:**  
**>Volume: >Volume Code:**  
**<WT: <WT Code:**  
**<Volume: <Volume Code:**  
**% Low WT: % Low WT Code:**  
**% High WT: % High WT Code:**  
**% Low Volume: % Low Volume Code:**  
**% High Volume: % High Volume Code:**  
**% Text: 30**  
**% Enviromental Weight:**  
**Other REC Limits:** N/K  
**OSHA PEL:** 1000 PPM **OSHA PEL Code:** M  
**OSHA STEL:** **OSHA STEL Code:**  
**ACGIH TLV:** C, 1000 PPM; 9293 **ACGIH TLV Code:** M  
**ACGIH STEL:** N/P **ACGIH STEL Code:**  
**EPA Reporting Quantity:** 5000 LBS  
**DOT Reporting Quantity:** 5000 LBS  
**Ozone Depleting Chemical:** 1

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### Section 3 - Hazards Identification, Including Emergency Overview

#### ZERO MIST CIRCUIT COOLER 10-8667

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**Health Hazards Acute & Chronic:** SEE SIGNS AND SYMPTOMS OF OVEREXPOSURE.

**Signs & Symptoms of Overexposure:**

LIGHTEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, NARCOSIS, UNCONSCIOUSNESS, DEATH.  
CAUTION: VAPOR IS HEAVIER THAN AIR. SUFFOCATION CAN OCCUR.

**Medical Conditions Aggravated by Exposure:**

PERSON WITH CARDIOVASCULAR DISEASE SHOULD AVOID THIS PRODUCT.

**LD50 LC50 Mixture:** N/P

**Route of Entry Indicators:**

**Inhalation:** YES

**Skin:** YES

**Ingestion:** NO

**Carcenogenicity Indicators**

**NTP:** NO

**IARC:** NO

**OSHA:** NO

**Carcinogenicity Explanation:** NOT LISTED

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### Section 4 - First Aid Measures

#### ZERO MIST CIRCUIT COOLER 10-8667

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**First Aid:**

EYES: FLUSH WITH WATER FOR 15 MINUTES. SEE DOCTOR. AVOID EPINEPHRINE. SKIN: WASH WITH SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. INGESTION: NOT LIKELY

TO BE HAZARDOUS. DO NOT INDUCE VOMITING. SEE DOCTOR.

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**Section 5 - Fire Fighting Measures**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Fire Fighting Procedures:**

SCBA ADVISABLE, AS TOXIC CHLORINE & FLUORINE GASES MAY BE EMITTED.

**Unusual Fire or Explosion Hazard:**

CAN MAY BURST IF SUBJECTED TO TEMPERATURES ABOVE 120F.

**Extinguishing Media:**

ANY MEDIA APPROPRIATE FOR SURROUNDING FIRE.

**Flash Point:** **Flash Point Text:** N/R

**Autoignition Temperature:**

**Autoignition Temperature Text:** N/A

**Lower Limit(s):** N/R

**Upper Limit(s):** N/R

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**Section 6 - Accidental Release Measures**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Spill Release Procedures:**

MATERIAL WILL VOLATIZE IMMEDIATELY IF CAN IS RUPTURED OR LEAKS.

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**Section 7 - Handling and Storage**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Handling and Storage Precautions:**

**Other Precautions:**

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**Section 8 - Exposure Controls & Personal Protection**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Respiratory Protection:**

NONE. AVOID PROLONGED BREATHING OF VAPORS.

**Ventilation:**

MECHANICAL (GENERAL)

**Protective Gloves:**

NOT REQUIRED IN NORMAL USES.

**Eye Protection:** CHEMICAL GOGGLES.

**Other Protective Equipment:** NONE NOTED.

**Work Hygienic Practices:** N/P

**Supplemental Health & Safety Information:** N/P

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**Section 9 - Physical & Chemical Properties**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**HCC:** N1

**NRC/State License Number:**

**Net Property Weight for Ammo:**

**Boiling Point:** **Boiling Point Text:** N/R

**Melting/Freezing Point:** **Melting/Freezing Text:** N/K

**Decomposition Point:** **Decomposition Text:** N/A

**Vapor Pressure:** 3345 **Vapor Density:** N/K

**Percent Volatile Organic Content:**

**Specific Gravity:** 1.37

**Volatile Organic Content Pounds per Gallon:**

**pH:** N/P

**Volatile Organic Content Grams per Liter:**

**Viscosity:** N/P

**Evaporation Weight and Reference:** 0.3 (BUTYL ACETATE=1)

**Solubility in Water:** INSOLUBLE

**Appearance and Odor:** CLEAR AEROSOL LIQUID. CHLORINATED SOLVENT ODOR.

**Percent Volatiles by Volume:** 100%

**Corrosion Rate:** N/P

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**Section 10 - Stability & Reactivity Data**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Stability Indicator:** YES

**Materials to Avoid:**

ALKALI OR ALKALINE EARTH METALS, ALUMINUM, ZINC, BERYLLIUM, ETC.

**Stability Condition to Avoid:**

TEMPERATURES ABOVE 120F.

**Hazardous Decomposition Products:**

IF SUBJECTED TO FLAME (>1100F,>593C), TOXIC GASES WILL BE EMITTED.

**Hazardous Polymerization Indicator:** N/P

**Conditions to Avoid Polymerization:**

N/K

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**Section 11 - Toxicological Information**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Toxicological Information:**

N/P

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**Section 12 - Ecological Information**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Ecological Information:**

N/P

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**Section 13 - Disposal Considerations**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Waste Disposal Methods:**

DISPOSE IAW FEDERAL, STATE & LOCAL REGULATIONS FOR SPENT AEROSOLS. DO NOT INCINERATE CANS.

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**Section 14 - MSDS Transport Information**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Transport Information:**

N/P

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**Section 15 - Regulatory Information**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**SARA Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

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**Section 16 - Other Information**  
**ZERO MIST CIRCUIT COOLER 10-8667**

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**Other Information:**

N/P

**HMIS Transportation Information****Product Identification:** ZERO MIST CIRCUIT COOLER 10-8667**Transportation ID Number:** 97179**Responsible Party CAGE:** EO032**Date MSDS Prepared:** 10/06/1989**Date MSDS Reviewed:** 07/18/1988**MFN:** 07/18/1988**Submitter:** D DG**Status Code:** C**Container Information****Unit of Issue:** CN**Container Quantity:** 0**Type of Container:** CAN, AEROSOL**Net Unit Weight:** 14 OZ**Article without MSDS:** N**Technical Entry NOS Shipping Number:** DICHLORODIFLUOROMETHANE,  
TRICHLOROMONOFUOROMETHANE.**Radioactivity:****Form:****Net Explosive Weight:****Coast Guard Ammunition Code:****Magnetism:** N/P**AF MMAC Code:****DOD Exemption Number:****Limited Quantity Indicator:****Multiple Kit Number:** 0**Kit Indicator:** N**Kit Part Indicator:** N**Review Indicator:** Y**Additional Data:****Department of Transportation Information****DOT Proper Shipping Name:** AEROSOLS, NON-FLAMMABLE,**DOT PSN Code:** AGD**Symbols:****DOT PSN Modifier:** (EACH NOT EXCEEDING 1 L CAPACITY)**Hazard Class:** 2.2**UN ID Number:** UN1950**DOT Packaging Group:****Label:** NONFLAMMABLE GAS**Special Provision(s):****Packaging Exception:****Non Bulk Packaging:** NONE**Bulk Packaging:** NONE**Maximum Quantity in Passenger Area:** 75 KG**Maximum Quantity in Cargo Area:** 150 KG**Stow in Vessel Requirements:** A**Requirements Water/Sp/Other:** 48,85**IMO Detail Information****IMO Proper Shipping Name:** AEROSOL DISPENSERS ?**IMO PSN Code:** AIY**IMO PSN Modifier:** ,WITH A CAPACITY OF 1000 CUBIC CM OR LESS**IMDG Page Number:** 9022**UN Number:** 1950**UN Hazard Class:** 9?

**IMO Packaging Group:** -  
**Subsidiary Risk Label:** -  
**EMS Number:** 2-13  
**Medical First Aid Guide Number:**

**IATA Detail Information**

**IATA Proper Shipping Name:** AEROSOLS, NON-FLAMMABLE  
**IATA PSN Code:** ANB  
**IATA PSN Modifier:** (EACH NOT EXCEEDING 1 L CAPACITY)  
**IATA UN Id Number:** 1950  
**IATA UN Class:** 2.2  
**Subsidiary Risk Class:**  
**UN Packaging Group:**  
**IATA Label:** NON-FLAMMABLE GAS  
**Packaging Note for Passengers:** 203  
**Maximum Quantity for Passengers:** 75 KG  
**Packaging Note for Cargo:** 203  
**Maximum Quantity for Cargo:** 150KG  
**Exceptions:**

**AFI Detail Information**

**AFI Proper Shipping Name:** COMPRESSED GAS, N.O.S.  
**AFI Symbols:** \*  
**AFI PSN Code:** HDO  
**AFI PSN Modifier:**  
**AFI UN Id Number:** UN1956  
**AFI Hazard Class:** 2.2  
**AFI Packing Group:** N/A  
**AFI Label:**  
**Special Provisions:** P5  
**Back Pack Reference:** A6.3, A6.5,A6.6

**HAZCOM Label Information**

**Product Identification:** ZERO MIST CIRCUIT COOLER 10-8667  
**CAGE:** EO032  
**Assigned Individual:** Y  
**Company Name:** GC ELECTRONICS CO,SUB OF HOUSEHOLD INTERNATIONAL C  
**Company PO Box:** 1209  
**Company Street Address1:** 1801 MORGAN ST  
**Company Street Address2:** ROCKFORD, IL 61105-1209 US  
**Health Emergency Telephone:** 815-968-9661  
**Label Required Indicator:** Y  
**Date Label Reviewed:** 03/12/1991  
**Status Code:** C  
**Manufacturer's Label Number:**  
**Date of Label:** 03/12/1991  
**Year Procured:** N/K  
**Organization Code:** F  
**Chronic Hazard Indicator:** N  
**Eye Protection Indicator:** N/P  
**Skin Protection Indicator:** N/P  
**Respiratory Protection Indicator:** N/P  
**Signal Word:** CAUTION  
**Health Hazard:** Slight  
**Contact Hazard:** Slight  
**Fire Hazard:** None  
**Reactivity Hazard:** Slight

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