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

Product Name: Duster<sup>™</sup> Aerosol Dust Removal System

Product Number (s): 14085

Product Use: pressurized gas duster

**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

<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**

**CAUTION:** Contents Under Pressure.

Appearance & Odor: Expelled product is a clear gas with a faint ethereal odor. Pressurized product is a liquefied gas.

### **Potential Health Effects:**

**ACUTE EFFECTS:** 

EYE: Contact with dispersed gas is not expected to cause negative effects. Contact with liquid product can

cause severe irritation, redness, tearing, blurred vision, and possible freeze burns.

SKIN: Contact with dispersed gas is not expected to cause negative effects. Contact with liquid product or

concentrated expelled gas can cause frostbite, irritation and dermatitis.

INHALATION: Inhalation of dispersed gas is not expected to cause negative effects. Inhalation of concentrated vapor

may produce anesthetic effects and feeling of euphoria. Prolonged exposure can cause rapid

breathing, headache, dizziness, narcosis, and unconsciousness. Deliberately inhaling this product can

lead to death from asphyxiation depending on concentration and time of exposure.

INGESTION: Ingestion of liquid product may cause frostbite to mouth and throat. Liquid product may pose aspiration

hazard.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure: None known

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

**Product Number (s): 14085** 

## Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.		
1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2	100		

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

Eye Contact: For liquid contact, immediately flush with plenty of water for 15 minutes. Call a physician if frostbite

occurs.

Skin Contact: For liquid contact, warm area gradually and get medical attention if there is evidence of tissue

damage. Flush area with plenty of water. Treat as frostbite.

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

breathing is difficult give oxygen. Call a physician immediately.

Ingestion: Do not induce vomiting. Contact a physician immediately.

Note to Physicians: Treat symptomatically.

## Section 5: Fire-Fighting Measures

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

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

Flash Point: None (COC) Upper Explosive Limit: NA Autoignition Temperature: ND Lower Explosive Limit: NA

Fire and Explosion Data:

Suitable Extinguishing Media: As appropriate for combustibles in area

Products of Combustion: Oxides of carbon, halogen acids (thermal decomposition)

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

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. Stop the release of material if possible. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result

from product decomposition.

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

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Ventilate area to disperse the vapor plume.

Methods for Containment & Clean-up: Eliminate sources of ignition. Ventilate the area with plenty of fresh air, especially

low areas where vapors may accumulate. If in confined space or limited air circulation area, workers should wear appropriate respiratory protection.

**Product Number (s): 14085** 

## Section 7: Handling and Storage

Handling Procedures: Avoid breathing vapors. Vapors are heavier than air and may travel along the ground.

Deliberately concentrating and inhaling the vapors of this product may result in death. 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. Keep out of reach of children.

Aerosol Storage Level:

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

### **Exposure Guidelines:**

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
1,1,1,2-Tetrafluoroethane (HFC-134a)	NE	NE	NE	NE	1000	AIHA	ppm
N.E. – Not Established		(c) – ceilin	g (s) -	- skin	(v) – vaca	ted	

### **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. 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 insulated rubber. Also, use full protective clothing if there is

prolonged or repeated contact of liquid with skin.

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

Physical State: dispensed product is a gas; pressurized product is a liquefied gas

Color: colorless
Odor: ethereal
Odor Threshold: ND
Specific Gravity: 1.24

Initial Boiling Point: -15.5°F / -26.4°C

Freezing Point: ND

Vapor Pressure: 70 psig @ 70°F / 21°C Vapor Density: 3.5 (air = 1)

Evaporation Rate: fast

Solubility: 0.95% (in water) at 70°F / 21°C Coefficient of water/oil distribution: ND

pH: NA

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

**Product Number (s): 14085** 

# Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: High heat, open flame

Incompatible Materials: Alkali or alkaline earth metals (such as Na, K, or Ba); finely divided metals; magnesium and

alloys containing more than 2% magnesium

Hazardous Decomposition Products: Halogen acids

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:**

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
1,1,1,2-Tetrafluoroethane (HFC-134a)	No data	No data	1500 g/m³/4H

### **Chronic Toxicity:**

	USHA	IARC	NIP		
Component	Carcinogen	Carcinogen	<u>Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
1,1,1,2-Tetrafluoroethane (HFC-134a)	No	No	No	No	No

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: No information available

Persistence / Degradability: No information available Bioaccumulation / Accumulation: No information available No information available

# **Section 13: Disposal Considerations**

Waste Classification: The dispensed product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)

Aerosol containers should be fully emptied and de-pressurized before disposal. 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.

**Product Number (s): 14085** 

## Section 14: Transport Information

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

ICAO/IATA (air): UN1950, Aerosols, nonflammable, 2.2, Limited Quantity

IMO/IMDG (water): UN1950, Aerosols, 2.2, Limited Quantity

Special Provisions: DOT-SP 11644: In accordance with this special permit, the product container is marked with

DOT-SP11644 instead of 2Q. This packaging is approved for shipping as a Consumer

Commodity.

# **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 No

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:**

### 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:

Consumer Products VOC Regulations: In California this product is restricted to energized equipment use only. It is not

regulated in other states.

**Product Number (s): 14085** 

State Right to Know:

New Jersey: 811-97-2 Pennsylvania: 811-97-2 Massachusetts: 811-97-2 Rhode Island: 811-97-2

### **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

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

### **European Union Regulations:**

RoHS Compliance: 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

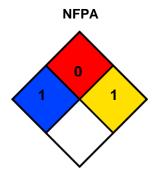
listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

## **Section 16: Other Information**

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

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



Prepared By: Michelle Rudnick

CRC #: 282

Revision Date: 06/11/2012

Changes since last revision: Removed bittering agent from product

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): 14085** 

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