

# MATERIAL SAFETY DATA SHEET

## Radiator Specialty Company

1400 W. INDEPENDENCE BLVD. • CHARLOTTE, N.C. 28208 • 704-377-6555

### MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

### U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration.  
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

### SECTION I GENERAL INFORMATION

PRODUCT NAME COLD SHOT REFRIGERANT 12 (AEROSOL)  
PARTS NUMBER M8-14, -14K, -30

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

### SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT. %	C.A.S. NO.	TLV (ACGIH <del>XXXXX</del> OSHA ----)
Dichlorodifluoromethane	100	75-71-8	1000ppm

Comments:

Components not identified are non-hazardous according to 29 CFR 1910.1200

### SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H<sub>2</sub>O = 1) 1.31 pH N/A  
 Solubility in Water Insoluble Solubility in Solvent Hydrocarbons, Ether  
 Flash Point (Method) - F° None % Volatiles By Wt. Greater Than 99 %  
 Melting Point - F° N/A Boiling Point - F° -21.6°  
 Vapor Pressure (mmHg) N/A Vapor Density (Air = 1) greater than 1  
 Evaporation Rate (Butyl Acetate = 1) N/A  
 Appearance and Odor Pale liquid with Ethereal odor.

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Caution: CONTENTS UNDER PRESSURE!!!  
 Water Fog \_\_\_\_\_ Foam XX CO<sub>2</sub> \_\_\_\_\_ Dry Chemical XX

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes. Water spray to cool cans. Shield to protect from venting, rupturing, or bursting cans.

UNUSUAL FIRE AND EXPLOSION HAZARDS At elevated temperatures containers may vent, rupture, or burst, even violently.

**SECTION V REACTIVITY DATA**

Stable <u>xxx</u> Unstable _____ Corrosive <u>NO</u> Hazardous Polymerization? Yes _____ No <u>xxx</u>
Incompatibilities Alkaline materials, Finely divided metals, oxidizing agents.
Hazardous Decomposition or Byproducts Fire: Smoke, carbon dioxide, carbon monoxide, and HYDROGEN CHLORIDE, HYDROGEN FLUORIDE, PHOSGENE, SULFUR OXIDES, and ALDEHYDE gases.

**SECTION VI HEALTH HAZARD INFORMATION**

<b>Recommended TLV of Product</b> 1000ppm Dichlorodifluoromethane	
<b>EYE CONTACT</b> Irritant. Avoid contact. Prolonged contact may freeze tissue.	<b>SKIN CONTACT</b> Irritant. Avoid contact. Prolonged contact may freeze tissue.
<b>INHALATION</b> Avoid prolonged breathing of vapor. DEATH CAN OCCUR WITHOUT WARNING!!!	<b>INGESTION</b> Not likely, pressure release causes volatilization. Contact may freeze tissue
<b>OTHER</b> Caution: CONTENTS UNDER PRESSURE!!!	Deliberate inhalation of contents of this can, can be extremely dangerous.

**SECTION VII EMERGENCY AND FIRST AID PROCEDURES**

<b>EYE CONTACT</b> Flush thoroughly with water while lifting the eyelids. Get medical attention.
<b>SKIN CONTACT</b> Slowly wash with warm-tepid soapy water. If adverse effects persist get medical attention immediately.
<b>INHALATION</b> Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. DO NOT GIVE ANY STIMULANTS!!!
<b>INGESTION</b> HARMFUL OR FATAL IF SWALLOWED!!! Not likely, liquid becomes volatilized when pressure is released. DO NOT ADMINISTER ADRENALIN OR OTHER STIMULANTS!

**SECTION VIII SPECIAL PROTECTION INFORMATION**

CONSUMER	BULK HANDLING (Prolonged Exposure)
<b>RESPIRATORY PROTECTION</b> N/A	If TLV is exceeded, wear NIOSH approved respirator.
<b>VENTILATION</b> Use with adequate ventilation.	General. Local if TLV is exceeded.
<b>EYE PROTECTION</b> N/A	Goggles or face shield.
<b>PROTECTIVE CLOTHING</b> N/A	Cloth-lined chemically-resistant gloves and apron.

**SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE**

<b>SPILL OR LEAK PROCEDURE</b> Observing health hazards described above, ventilate area, remove ignition sources. Confine spill, allow to evaporate, absorb and transfer to waste drum.
<b>WASTE DISPOSAL METHOD</b> Dispose of in accordance with all applicable government laws and regulations.
<b>STORAGE AND HANDLING PRECAUTIONS</b> Store in cool place away from alkalies, oxidizing agents, powdered metals and ignition sources.
<b>OTHER PRECAUTIONS</b> WEARING CONTACT LENSES IS INADVISABLE!!! DO NOT INCINERATE OR PUNCTURE CONTAINERS!!! KEEP AWAY FROM CHILDREN AND ANIMALS!!!

Supersedes August, 1989

OSHA Revised January, 1990

Title I. Liebman/Technical Director

HAZARD INFORMATION LABEL DATA

HAZARD CODE FLAMMABILITY

4=Extreme  
3=High  
2=Moderate  
1=Slight  
0=Negligible

HEALTH

REACTIVITY

SPECIAL

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for your information, investigation, and verification.

Pr - Pressure  
\*Powdered Metals