

Duplicate

U.S. DEPARTMENT OF LABOR
Occupational Safety & Health Administration
MATERIAL SAFETY DATA SHEET

SECTION I	
MANUFACTURER'S NAME E. I. du Pont de Nemours & Co.	EMERGENCY TELEPHONE NO. (302) 774-1000
ADDRESS (Number, Street, City, State, and ZIP Code) Freon® Products Div., Wilmington, Delaware 19898	
CHEMICAL NAME AND SYNONYMS Dichlorodifluoromethane	TRADE NAME AND SYNONYMS Freon® 12 (Halon 122 Fire System Test Gas)
CHEMICAL FAMILY Halogenated Hydrocarbon	FORMULA CCl₂F₂

SECTION II HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
None					

SECTION III PHYSICAL DATA			
BOILING POINT (°F)	-21.6	SPECIFIC GRAVITY (H ₂ O = 1) 77°F	1.311
VAPOR PRESSURE (mm Hg.) 77°F	4893	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR = 1)	4.2	EVAPORATION RATE (AIR = 1)	Rapid
SOLUBILITY IN WATER 77°F	0.028		
APPEARANCE AND ODOR Colorless liquid - slight ethereal odor			

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	None	FLAMMABLE LIMITS	None
EXTINGUISHING MEDIA	Nonflammable		
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
None			

NOTICE FROM DU PONT

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

1000 ppm

EFFECTS OF OVEREXPOSURE

Light-headedness, giddiness, shortness of breath, possible narcosis, possible cardiac arrhythmias at high concentrations

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air, call a physician. Do not give epinephrine or similar drugs.

Skin or Eye Contact: Flush with water; call a physician

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate area - especially low places where heavy vapor might collect. Remove open flames.

WASTE DISPOSAL METHOD

Evaporate outdoors.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Use air mask in high concentrations

VENTILATION	LOCAL EXHAUST	SPECIAL
	When large amounts are released MECHANICAL (if normal), especially in low places	OTHER

PROTECTIVE GLOVES

when handling liquid

EYE PROTECTION

when handling liquid

OTHER PROTECTIVE EQUIPMENT

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store cylinders in a clean, dry area. Do not store above 130°F.

OTHER PRECAUTIONS