U.S. DEPARTMENT OF LABOR

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Occupational Safety & Health Administration

MATERIAL SAFETY DATA SHEET

Gas, Refrigerant 12

SECTION I

MANUFACTURER'S NAME: E. I. Du Pont de Nemours & Company, Inc.	EMERGENCY TELEPHONE NO.: (302)-774-2421
ADDRESS (Number, Street, City, State, and ZIP Code): Freon® Products Division, Wilmington, Delaware 19898	
CHEMICAL NAME AND SYNONYMS: Dichlorodifluoromethane	TRADE NAME AND SYNONYMS: Freon® 12
CHEMICAL FAMILY: Halogenated Hydrocarbon	FORMULA: CCl_2F_2

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)

SECTION III PHYSICAL DATA

BOILING POINT (°F.)		-21.6	SPECIFIC GRAVITY (H_2O=1)	77°F	1.311
VAPOR PRESSURE (mm Hg.)	77°F.	4893	PERCENT VOLATILE BY VOLUME (%)		100
VAPOR DENSITY (AIR=1)		6.33	EVAPORATION RATE (_____=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	Lel	Uel

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 not

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			CONDITIONS TO AVOID
	UNSTABLE		Open flames or high temperatures
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrochloric and Hydrofluoric acid, possible carbonyl fluoride

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	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: Reclaim by distillation.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*: Use air mask in high concentrations.

VENTILATION		
	LOCAL EXHAUST: When large amounts are released	SPECIAL
	MECHANICAL *(General)*: Especially in low places	OTHER

PROTECTIVE GLOVES	EYE PROTECTION
When handling liquid	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

Shipping Name: Dichlorodifluoromethane

Revised 8-15-79