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E.I.DUPONT DE NEMOURS AND COMPANY, INC -- FREON 22 -- 6830-00-782-3930

======== Product Identification ============

Product ID:FREON 22 MSDS Date:06/27/1992

FSC:6830

NIIN:00-782-3930

MSDS Number: BFPQT === Responsible Party ===

Company Name: E.I.DUPONT DE NEMOURS AND COMPANY, INC

Address:1007 MARKET ST

Box:1635

City:WILMINGTON

State:DE ZIP:19899 Country:US

Info Phone Num:800-441-9450 Emergency Phone Num:800-4

41-3637,800-424-9300(CHEMTREC)

Preparer's Name: W.J.BROCK

CAGE:DO229

=== Contractor Identification ===

Company Name: E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

Company Name: E.I.DUPONT DE NEMOURS & CO INC

Address:549 ALBANY STREET

Box:1635 City:BOSTON State:MA ZIP:02118

Phone:800-441-7515

CAGE:DO229

====== Composition/Information on Ingredients ========

Ingred Name: CHLORODIFLUORO

METHANE, FREON 22 CAS:75-45-6 RTECS #:PA6390000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000PPM; 9192 Ozone Depleting Chemical:2

LD50 LC50 Mixture:IHL-RAT LC50 IS 25PPH/4HOURS
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: INHALATION OF HIGH CONCENTRATIONS OF

VAPOR IS HARMFUL AND MAY CAUS

E HEART IRREGULARITIES,

UNCONSCIOUSNESS OR DEATH. INTENTIONAL MISUSE OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. VAPOR R EDUCES OXYGEN AVAILABLE FOR BREATHING AND IS HEAVIER THAN AIR. LIQUID CONTACT CAN CAUSE FROSTBITE.

Effects of Overexposure:NERVOUS SYSTEM DEPRESSION, DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, AND LOSS OF CONSCIOUSNESS. HIGHER EXPOSURES MAY CAUSE ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, PAL PITATIONS, OR

INADEQUATE CIRCULATION; OR

FATALITY FROM GROSS OVEREXPOSURE. SKIN CONTACT WITH LIQUID MAY CAUSE FROSTBITE.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: FLUSH AREA WITH LARGE AMOUNTS OF WATER. TREAT FOR

FROSTBITE IF NECESSARY BY GENTLY WARMING AFFECTED AREA. INHALATION: MOVE TO FRES H AIR. IF NOT BREATHING GIVE CPR. IF BREATHING DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE. HOWEVER, IF SWALLOWED GET MEDICAL ATTENTION.

Flash Point Method:TOC

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE

Extinguishing Media: AS APPROPRI

ATE FOR COMBUSTABLES IN AREA. OTHER BURNING MATERIAL MAY CAUSE PRODUCT TO BURN WEAKLY.

Fire Fighting Procedures:USE WATER SPRAY OR FOG TO COOL CONTAINERS.
SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE
OR CONTENTS ARE RELEASED UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard: CYLINDERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES BUT MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

=======================================	Accidental	Release	Measure
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Spill Release Procedures: VENTILATE AREA-ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. USE SELF-CONTAINED BREATHING APPARATUS FOR LARGE SPILLS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

========== Handling and Storage ============

Handling and Storage Precautions:STORE CONTAINERS IN CLEAN, COOL, DRY, WELL VENTILATED AREA. DO NOT HEAT ABOVE 125F.

PROTECT CONTAINER AND

ITS FITTINGS FROM PHYSICAL DAMAGE.

Other Precautions:STORAGE IN SUBSURFACE LOCATIONS SHOULD BE AVOIDED.

====== Exposure Controls/Personal Protection ========

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A LARGE RELEASE OCCURS.

Ventilation:NORMAL VENTILATION IS GENERALLY ADEQUATE. USE LOCAL EXHAUST FOR LARGE RE

LEASES AND MECHANICAL VENTILATION IN LOW PLACES.

Protective Gloves: IMPERVIOUS GLOVES WHEN HANDLING LIQUIDS.

Eye Protection: SPLASH GOGGLES WHEN HANDLING LIQUIDS.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

EXCESSIVE VAPORIZATION CAN DEPLETE/REPLACE OXYGEN NEEDED FOR BREATHING. THIS IS A MAJOR HAZARD IN CONFINED/ENCLO

SED SPACES AND AREAS WITH

LITTLE VENTILATION. FREON 22 SHOULD NOT BE MIXED WITH AIR FOR LEAK TESTING. IT SHOULD NOT BE USED OR ALLOWED TO BE PRESENT WITH HIGH CONCENTRATIONS OF AIR ABOVE ATMOSPHERIC PRESSURE.

 Physical/Chemical Properties	
 i ilysical/Cilettiical i iopetties	

HCC:G3

Boiling Pt:B.P. Text:-41F,-41C

Vapor Pres:151 PSIG Vapor Density:3.03 AIR=1 Spec Gravity:1.194 (LIQUID)

pH:7

Evaporation Rate & Reference:>1 (CC14=1.0)

Solubility in Water:SLIGHT,0.30WT %

Appearan

ce and Odor:CLEAR, COLORLESS, LIQUIDFIED GAS. SLIGHT ETHEREAL

ODOR.

Percent Volatiles by Volume:100

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid: AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:HYDROCHLORIC, HYDROFLUORIC ACIDS AND POSSIBLY CARBONYL HALIDES.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. MANUFACTURER RECOMMENDS RECLAIMING BY DISTILLATION.

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