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DU PONT E I DE NEMOURS & CO CHEMICALS & PIGMENTS -- FREON 14/FREON 23 SPECIALTY FLUOROCARBON (1 -- 4935-00-930-3892

Product ID:FREON 14/FREON 23 SPECIALTY FLUOROCARBON (1

MSDS Date:05/01/1989

FSC:4935

NIIN:00-930-3892

MSDS Number: BQXVG === Responsible Party ===

Company Name: DU PONT E I DE NEMOURS & CO CHEMICALS & PIGMENTS

Address:1007 MARKET ST

City:WILMINGTON

S

tate:DE ZIP:19898 Country:US

Info Phone Num:302-695-0756

Emergency Phone Num:800-441-7515,800-424-9300(CHEMTREC)

Preparer's Name: K.P.BROWN

CAGE:0BA38

=== Contractor Identification ===

Company Name: DU PONT E I DE NEMOURS AND CO INC CHEM

Address: DELLE DONNE CORPORATE CTR

City:WILMINGTON

State:DE

ZIP:19880-0800

Country:US

Phone:800-441-7515

CAGE:0BA38

Company Name: DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT

Address:1007 MARKET ST Box:City:WILMINGTON

State:DE ZIP:19898 Country:US Phone:800-44

1-7515

CAGE:23037

Company Name: GOODMAN BALL INC

Address:3639 HAVEN AVE Box:City:MENLO PARK AVE

State:CA

ZIP:94025-1009

Country:US

Phone:415-363-0113

CAGE:62502

Company Name: PACIFIC SCIENTIFIC CO HTL/KIN-TECH DIVISION

Address:1800 HIGHLAND AVE

Box:City:DUARTE

State:CA ZIP:91010 Country:US

Phone:818-359-9317/602-796-1100

CAGE:05167

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

EC Limits:NONE RECOMMENDED

Ingred Name:TETRAFLUOROMETHANE (FREON 14)

CAS:75-73-0

RTECS #:FG4920000 Fraction by Wt: 16%

Other REC Limits: NONE RECOMMENDED

========== Hazards Identification ================

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: EYES AND SKIN: LIQUID CONTACT MAY

CAUSE FROSTBITE. INHALATION: HIGH CONCENTRATI

ONS OF VAPOR IS

HARMFUL AND MAY CAUSE HEART IRREGULARITIES, ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY, CNS DEPRESSION, UNCONSCIOUSNESS, AND DEATH. INTENTIONAL MISUSE CAN BE FATAL. INGESTION: NOT CONSIDERED A POTENTIAL ROUTE OR EXPOSURE.

Effects of Overexposure: EYES AND SKIN: IRRITATION, FROSTBITE.

INHALATION: HEART IRREGULARITIES, ALTERATION OF HEART'S ELECTRICAL ACTIVITY, CNS DEPRESSION, DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, UNCONSCIOUSNESS, IRRE GULAR

PULSE, PALPITATIONS,

INADEQUATE CIRCULATION, DEATH. INGESTION: NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

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: REMOVE CONTAMINATED CL

OTHING, FLUSH AREA WITH

LARGE AMOUNTS OF WATER. TREAT FOR FROSTBITE IF NECESSARY. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF BREATHING DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

Flash Point: NONFLAMMABLE

Extinguishing Media:USE MEDIA APPROPRIATE FOR COMBUSTIBLES IN AREA. Fire Fighting Procedures:USE WATER SPRAY OR FOG TO

CONTAINERS. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS. Unusual Fire/Explosion Hazard: CYLINDERS ARE EQUIPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES, BUT STILL MAY RUPTURE UNDER FIRE CONDITIONS. ======== Accidental Release Measures ============ Spill Release Procedures: VENTILATE AREA, ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. WEAR SELF-CONTAIN ED BREATHING APPARATUS (SCBA) FOR LARGE SPILLS. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============= Handling and Storage ========================== Handling and Storage Precautions: STORE IN A CLEAN, DRY AREA AWAY FROM FLAMES AND HEAT ABOVE 125F. Other Precautions: NONE SPECIFIED BY MANUFACTURER. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. SELF-CONTAINED BREATHING APPARAT US (SCBA) IS REQUIRED IF A LARGE SPILL OR RELEASE OCCURS. Ventilation: NORMAL VENTILATION ADEQUATE FOR STANDARD PROCEDURES. LOCAL EXHAUST WHEN LARGE AMOUNTS RELEASED.MECNANICAL FOR LOW PLACES. Protective Gloves:LINED LEATHER GLOVES IF SKIN CONTACT. Eye Protection: SPLASH GOGGLES IF CONTACT IS POSSIBLE. 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 ======== Physical/Chemical Properties ============ HCC:G3 Boiling Pt:B.P. Text:-146F,-99C Decomp Temp:Decomp Text:>1409F,>765 Vapor Pres:119PSIA Vapor Density:2.52 Spec Gravity: 1.413 Evaporation Rate & Evaporation R Solubility in Water: 0.08 % BY WT. Appearance and Odor: COLORLESS GAS. SLIGHT ETHEREAL ODOR. Percent Volatiles by Volume:100 ======== Stability and Reactivity Data ===========

Stability Indicator/Materia

COOL FIRE EXPOSED

Is to Avoid:YES

ALKALI OR ALKALINE EARTH METALS-POWDERED ALUMINUM, ZINC, BERYLLIUM, ETC.

Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES.
Hazardous Decomposition Products:THIS PRODUCT CAN BE DECOMPOSED BY HIGH TEMPERATURES,OPEN FLAMES FORMING HYDROFLUORIC ACID AND POSSIBLY CARBONYL HALIDES.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

======= Disposal Considerations ==========

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE

AND FEDERAL REGULATIONS. RECLAIM BY DISTILLATION OR VENT TO ATMOSPHERE.

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