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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

State: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:800-4 41-7515

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 ========

REC Limits: NONE RECOMMENDED Ingred Name: TETRAFLUOROMETHANE (FREON 14) CAS:75-73-0 RTECS #:FG4920000 Fraction by Wt: 16% Other REC Limits: NONE RECOMMENDED 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 CONCENTRAT IONS 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 GULA R 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 C LOTHING. 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 T

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-CONTAINED
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 APPARA TUS (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 & Decomp Reference:>1 (CCL4=1) 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/Materi

O COOL FIRE EXPOSED

als 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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