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DU PONT E I DE NEMOURS AND CO INC -- FREON 113 (P/N 8500-1251 & 92193F,SEE SUPP) -- 6625-01-103-3583

Product ID:FREON 113 (P/N 8500-1251 & 92193F, SEE SUPP) MSDS Date:05/01/1989 FSC:6625 NIIN:01-103-3583 **MSDS Number: BJQYH** === Responsible Party === Company Name: DU PONT E I DE NEMOURS AND CO INC Address:1007 MARKET STREET Box:1635 City:WILMINGTON State:DE ZIP:1989 9 Country:US Info Phone Num:800-441-7515 800-441-9450 Emergency Phone Num:800-441-3637 Preparer's Name: T. D. ARMSTRONG CAGE:0BA38 === Contractor Identification === Company Name: DU PONT E I DE NEMOURS AND CO INC PETROCHEMICALS DEPT Address:1251 BRANDYWINE BLDG Box:City:WILMINGTON State:DE ZIP:19898 Phone:302-773-5676 CAGE:73925 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:HEWLETT-PACKARD; MIDWEST SALES REGION Address:4887 WASHINGTON VILLAGE DRIVE Box:City:DAYTON State:OH ZIP:45459 Country:US Phone:513-433-2223 CAGE:3B868

Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA III) CAS:76-13-1 RTECS #:KJ4000000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED OSHA PEL:1000PPM/1250STEL ACGIH TLV:1000PPM/1250STEL9192 Ozone Depleting Chemical:1

LD50 LC50 Mixture:LC50 ORAL RAT 43000 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:PRODUCT IS NEITHER CORROSIVE NOR AN IRRITANT. IT WILL DEFAT & DRY SKIN,POSSIBLY CAUSING DERMATITIS. VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. Explanation of Carcinogenicity:FREON 113 IS NOT LISTE D AS A CARCINOGEN BY IARC, NTP OR OSHA. Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID CAN CAUSE DEFATTIN G OF TISSUE.

DEFATTING AGENT AND CAN CAUSE DERMATITIS ON PROLONGED EXPOSURE. PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO

THE EFFECTS OF THIS AGENT.

First Aid:EYE:FLUSH W/ WATER 15 MIN, HOLD LIDS OPEN, SEE A DOCTOR. SKIN:WASH WITH SOAP & WATER. TREAT FOR FROST-BITE IF NEEDED. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING, AS NEEDED. DO NOT GIVE EPINEPHRI NE OR SIMILAR DRUGS. INGESTED:DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL CARE. IF IRRITATION PERSISTS,OR IS SEVERE,SEE A DOCTOR.

Flash Point:NON-FLAMMABLE

Extinguishing Media: PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

Spill Release Procedures: VENTILATE AREA. DO NOT FLUSH INTO SEWERS. COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL. Neutralizing Agent: NONE

Handling and Storage Precautions:STORE IN A CLEAN, COOL, DRY AND WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP CLOSED.
Other Precautions:TANK-CLEA
NING PERSONNEL SHOULD USE ONLY FORMAL TANK
ENTRY PROCEDURE BASED ON RECOGNIZED SAFETY PRINCIPLES. APPLY ALL SAFETY PRECAUTIONS TO EMPTY CONTAINERS AS THEY MAY CONTAIN PRODUCT RESIDUES/VAPORS.

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

Respiratory Protection: RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REG

ULATIONS PERTAINING TO RESPIRATOR USE. Ventilation: PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER. Protective Gloves: LINED BUTYL RUBBER, PVA OR NEOPRENE Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES Other Protective Equipment: USE IMPERVIOUS CLOTHING IF THERE IS DANGER OF REPEATED OR PROLONGED CONTACT WITH LIQUID. Work Hygienic Practices: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID CONTACT. REMOVE AND WASH CLOTHING PRO MPTLY UPON CONTAMINATION. Supplemental Safety and Health FREON 113 IS PART OF HEWLETT-PACKARD P/N 8500-1251, HEAD CLEANER KIT. THIS PART NUMBER WAS REPLACED BY P/N 92193F CONTAINING ALSO FREON 113, WHICH WAS REPLACED BY P/N 92281B WHICH CONTAINS ISOPROPYL ALCOHOL.

HCC:N1 Boiling Pt:B.P. Text:118F,48C Vapor Pres:334 MM Vapor Density:6.6 Spec Gravity:1.57 pH:NEUTRL Evaporation Rate & amp; Reference:0.1 (CARBON TET = 1) Appearance and Odor:CLEAR COLORLESS LIQUID, SLIGHT ETHEREAL ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES ALKALI AND ALKALINE EARTH METALS Stability Condition to Avoid:FLAME,HIGH TEMPERATURES Hazardous Decomposition Products:DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS.

====== Disposal Consi

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. MANUFACTURER SUGGESTS THAT RECLAIMATYION BY DISTILLATION OR DISPOSAL BY A PERMITTED FACILITY.

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