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DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT -- SUVA 134A -- 6830-01-370-6208

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

Product ID:SUVA 134A MSDS Date:03/23/1999

FSC:6830

NIIN:01-370-6208 Status Code:A

MSDS Number: CKSCJ === Responsible Party ===

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

Address:1007 MARKET ST

City:WILMINGTON

State:DE ZIP:19898 Country:US

Info Phone Num:800-44

1-7515

Emergency Phone Num:(800)424-9300 Resp. Party Other MSDS Num.:DU000693 Preparer's Name:MSDS COORDINATOR Chemtrec Ind/Phone:(800)424-9300

CAGE:23037

=== Contractor Identification ===

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:800-441-7515

CAGE:23037

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

Ingred Name:ETHANE, 1,1,1,2-TETRAFLUORO-

CAS:811-97-2 = Wt:100. Other REC Limits:1000 PPM, 8 & 12 HR OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

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

Reports of Carcinogenicity:NTP:UNKNOWN IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION: ETHANE,

1,1,1,2-TETRAFLUORO-GROSS OVEREXPOSURE MAY CAUSE: CENTRAL NERVOUS SYSTEM DEPRSSION WITH DIZZINESS, CONFUSION, INCOORDINATION, DROWSINESS OR UNCONSCIOUSNESS. IRREGULAR HEART BEAT WITH A STRANGE SENSATION IN THE CHEST, H

EART THUMPING, APPREHENSION,

LIGHTHEADEDNESS, FEELING OF FAINTING, DIZZINESS, WEAKNESS, SOMETIMES PROGRESSING TO LOSS OF CONSCIOUNESS AND DEATH. SUFFOCATION, IF A IR IS DISPLACED BY VAPORS. SKIN: IMMEDIATE EFFECTS OF OVEREXPOSURE MAY INCLUDE: FROSTBITE, IF LIQUID OR ESCAPING VAPOR CONTACTS THE SKIN. EYE: FROSTBITE-LIKE EFFECTS MAY OCCUR IF THE LIQUID OR ESCAPIN G VAPORS CONTACT THE EYES.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT

CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NPT, OSHA OR ACGIH AS A CARCINOGEN.

Effects of Overexposure:INHALATION: ETHANE, 1,1,1,2-TETRAFLUORO-GROSS OVEREXPOSURE MAY CAUSE: CENTRAL NERVOUS SYSTEM DEPRSSION WITH DIZZINESS, CONFUSION, INCOORDINATION, DROWSINESS OR UNCONSCIOUSNESS. IRREGULAR HEART BEAT WITH A STRANGE SENSATION IN THE CHEST, HEART THUMPING, APPREHENSION, LIGHTHEADEDNESS, FEELING OF FAINTING, DIZZINESS, WEAKNESS, SOMETIMES PROGRESSING T

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Medical Cond Aggravated by Exposure:INCREASED SUSCEPTIBILITY TO EFFECTS OF MATERIAL MAY BE OBSERVED IN PERSONS WITH PRE-EXISTING DISEASE OF CENTRAL NERVOUS SYSTEM & CARDIOVASCULAR SYSTEM.

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First Aid:INHALATION: IF HIGH CONCENTARATIONS INHALED, IMMEDIATELY REMOVE TO FRESH AIR. KEEP PERSON CLAM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. CALL PHYSICIAN. SKI N: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY WATER FOR AT LEAST 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING & SHOES. CALL PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE. TREAT

FOR FROSTBITE IF NECESSARY BY GENTLY WARMING
AFFECTED AREA. EYE: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH
PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL PHYSICIAN. INGESTION:
INGESTION IS NOT A POTIENTIAL ROUTE OF EXPOSURE.

		Fire Fighting	Measures	=======================================
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Flash Point: WILL NOT BURN

Lower Limits:NA Upper Limits:NA

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL. COOL TANK/CONTAINER WITH WATER SPRAY.

Fire Fighting Pro

cedures:SELF-CONTAINED BREATHING APPARATUS MAY BE

REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:NOT FLAMMABLE UP TO 100C AT ATMOSPHERIC PRESSURE BUT MIXTURES WITH HIGH CONCENTRATIONS OF AIR AT ELEVATED PRESSURE CAN BECOME COMBUSTIBLE AT AMBIENT TEMP. AS TEMPERATURE OF MATERIAL IS INCREASED LOWER PRESSURE (>ATMOSPHERIC) CAN CREATE SAME EFFECT. DO NOT MIX WITH HIGH CONCENTRATIONS OF AIR ABOVE ATMOSPHERIC PRESSURE.

====== Accidental Release Measures =========

Spill Release Procedures: VENTILATE AREA, ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTIANED BRATHING APPARATUS (SCBA) IF LARGE SPILL OR LEAK OCCURS.

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

Handling and Storage Precautions:USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS. HFC-134A SHOULD NOT BE MIXED

WITH AIR FOR LEAK TESTING OR USED FOR ANY OTHER PURPOSE ABOVE ATMOSPHERIC PRESSURE. SE E FLAMMABLE PROPERTIES SECTION. STORE IN A CLEAN, DRY PALCE. DO NOT HEAT ABOVE 52C (126 Other Precautions: AVOID CONTACT WITH CHLORINE OR OTHER STRONG OXIDIZING AGENTS SHOULD BE AVOIDED. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. F-CONTAINED BREATHING APPATATUS (SCBA) IS REQUIRED IF A LARGE RELEASE OCCURS. Ventilation: NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURES IS GENERALLY ADEQUATE. LOCAL EXHAUST SHOULD BE USED WHEN LARGE AMOUNTS ARE RELEASED. Protective Gloves: IMPERVIOUS Eye Protection: CHEMICAL SPLASH GOGGLES. Other Protective Equipment: NOT PROVIDED Work Hygienic Practices: NOT PROVIDED Supplemental Safety and Health ========= Physical/Chemical Properties =========== HCC:G3 oiling Pt:=-26.5C, -15.7F Vapor Pres:96 PSIA @ 25C Vapor Density:3.6 Spec Gravity:1.208 @ 77F Evaporation Rate & Evaporation R Solubility in Water: 0.15 WT% @ 25C Appearance and Odor: COLORLESS, LIQUIFIED GAS, SLIGHT ETHER ODOR. Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid: AVOID O

PEN FLAMES AND HIGH TEMPERATURES. Hazardous Decomposition Products:DECOMPOSITION PRODUCTS ARE HAZARDOUS. THIS MATERIAL CAN BE DECOMPSED BY HITH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROFLUORIC ACID AND POSSIBLY CARBONYL FLUORIDE. Conditions to Avoid Polymerization:WILL NOT OCCUR.
========== Toxicological Information ===========
Toxicological Information: SHORT DURATION OF VAPOR SPRAY PRODUCED VERY SLIGHT EYE IRRITATION. ANIMAL TESTI NG INDICATES MATERIAL IS SLIGHT SKIN IRRITANT BUT NOT SKIN SENSITIZER. INHALATION: 4 HR, ALC, RAT: 567000 PPM. SINGLE EXP OSURE CAUSED CARDIAC SENSITIZATION, A POTENTIALLY FATAL DISTURBANCE OF HEART RHYTHM ASSOCIATED WITH HEIGHTENED SENSITIVITY TO ACTION OF EPINEPHRINE. LOWEST OBSERVED ADVERSE EFFECT LEVEL FOR CARDIAC SE NSITIZATION: 75000 PPM. SINGLE EXPOSURE CAUSED LETHARGY, NARCOSIS, INCREASED RESPIRATORY RATES (TEMPORARY EFFECTS). SINGLE DOSE TO NEAR LETHAL DOSE: PULMONARY EDEMA. CONTINUED IN OTHER INFORMATION FIE LD.
============ Ecological Information =============
Ecological:AQUATIC TOXICITY: 48 HR EC50 - DAPHNIA MAGNA: 980 MG/L; 96 HR LC50 - RAINBOW TROUT: 450 MG/L.
======= Disposal Considerations ==========
Waste Disposal Methods:CONTAMINATED HFC-134A CAN BE RECOVERED BY DISTILLATION OR REMOVED TO A PERMITTED WASTE DISPOSAL FACILITY. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
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Transport Information:DOT INFORMATION: 1,1,1,2-TETRAFLUOROETHANE, 2.2, UN NO 3159, NONFLAMMABLE GAS LABEL.
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SARA Title III Information:SARA SECTION 311/312 CLASSES: ACUTE, CHRONIC, PRESSURE. NOT ON SARA EHS, CERCLA HAZARDOUS SUBSTANCE,

SARA TOXIC CHEMICAL LISTS. Federal Regulatory Information:INCLUDED IN TSCA INVENTORY. State Regulatory Informatio

n:NOT PROVIDED

============= Other Information =============================

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e responsibility for the suitability of this information to their particular situation.