View NSN Online: https://aerobasegroup.kr/nsn/6850-01-435-5658

DU PONT FLUOROPRODUCTS -- "VERTREL" MCA -- 6850-01-435-5658

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

Product ID: "VERTREL" MCA

MSDS Date:09/26/2000

FSC:6850

NIIN:01-435-5658

MSDS Number: CKVJS === Responsible Party ===

Company Name: DU PONT FLUOROPRODUCTS

Address:1007 MARKET STREET

City:WILMINGTON

State:DE ZIP:19898 Country:US

Info Phone Num:1-800-441-7515

Emergency Phone Num:1-800-441-3637/MEDICAL EMERGE

NCY

Resp. Party Other MSDS Num.:6092FR Chemtrec Ind/Phone:(800)424-9300

CAGE:2S827

=== Contractor Identification ===

Company Name: DU PONT FLUOROPRODUCTS

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:1-800-441-7515

Contract Num:SP0450-01-M-D210

CAGE:2S827

Company Name: SDB CONSULTANTS LTD Address: 401 WHITNEY AVE SUITE 120

Box:City:GRETNA

State:LA ZIP:70056 Country:US

Phone:504-366-9105

Contract Num:SP0450-01-M-ZE54

CAGE:0PGK2

====== Composition/Informa

tion on Ingredients =======

Ingred Name:1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE (HFC-43-10MEE)

CAS:138495-42-8 Minumum % Wt:59. Maxumum % Wt:65.

Other REC Limits: 200 PPM (DUPONT)

Ingred Name:TRANS-1,2-DICHLOROETHYLENE (T-DCE)

CAS:156-60-5

RTECS #:KV9400000 Minumum % Wt:35. Maxumum % Wt:41.

Other REC Limits: 200 PPM (DUPONT)

OSHA PEL:200 PPM TWA 8-HR ACGIH TLV:200 PPM TWA 8-HR

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

LD

50 LC50 Mixture: NONE GIVEN FOR PRODUCT AS A WHOLE Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

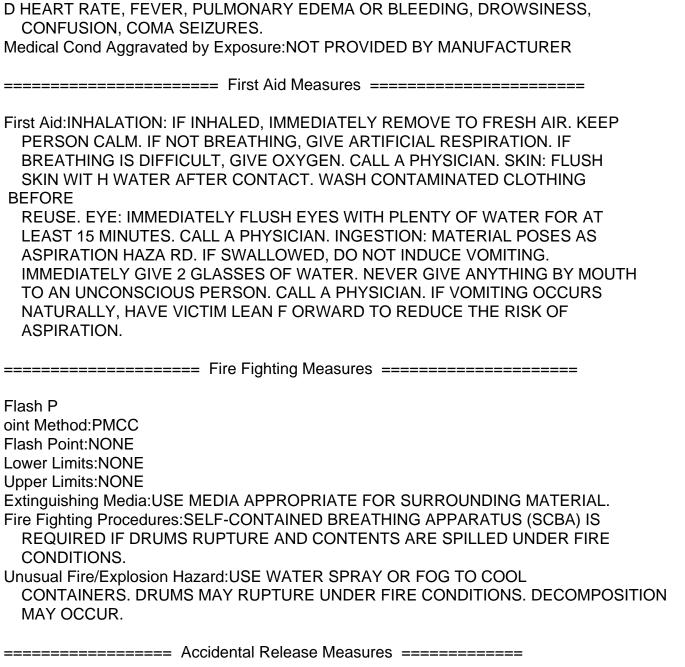
Health Hazards Acute and Chronic:HFC-43-10MEE MAY CAUSE SUFFOCATION, CENTRAL NERVOUS SYSTEM (CNS) STIMULATION FOLLOWED BY CNS DEPRESSION. OVEREXPOSURE MAY CAUSE IRREGULAR HEARTBEAT. INTENTIONAL MISUSE MAY CAUSE DEATH WITHOUT WARNING. SKIN CONTACT MAY CAUSE SLIGHT IRRITATION. EYE CONTACT MAY CAUSE IRRITATION. ASPIRATION OF LIQUID INTO LUNGS MAY CAUSE CHEMICAL PNEUMONIA. T-D

CE: INHALATION

MAY CAUSE CNS DEPRESSION. OTHER EFFECTS IN CLUDE IRREGULAR HEARTBEAT. SKIN CONTACT MAY CAUSE SEVERE IRRITATION. EYE CONTACT MAY CAUSE SEVERE IRRITATION. INGESTION MAY CAUSE PULMONARY EDEMA (ASPIRATION OF LIQUID INTO LUNG). INGESTION MAY CAUSE PATHOLOGICAL CHANGES IN LIVER & HEART.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA OR ACGIH AS A CAR CINOGEN.

Effects of Overexposure:INHALED-SLEEPLESSNESS, TREMORS, CONVULSIONS, DIZZINESS, CONFUSION, INCOORDINATION, DROWSINESS, UNCONSCIOUSNESS, STRANGE SENSATION IN CHEST, "HEART THUMPING", APPREHENSION, LIGHTHEADEDNESS, FEELING OF FAINTING, DIZZINESS, WEAKNESS, LOSS OF CONSCIOUSNESS, DEATH. SKIN: ITCHING, REDNESS, RASH. EYES: TEARING, PAIN, BLURRED VISION. ASPIRATION: COUGHING, GASPING, CHOKING, SHORTNESS OF BREATH, BLUISH DISC OLORATION OF SKIN, RAPID BREATHING AN



=====

Spill Release Procedures: INITIAL CONTAINMENT-DIKE SPILL. PREVENT MATERIAL FROM ENTERING SEWERS, WATERWAYS, OR LOW AREAS. IMMEDIATELY EVACUATE THE AREA AND PROVIDE MAXIMUM VENTILATION ESPECIALLY IN LOW PLACES WHERE HEAVY VAPOR S MIGHT COLLECT. UNPROTECTED PERSONNEL SHOULD MOVE UPWIND OF SPILL. ONLY PERSONEL EQUIPPED WITH PROPER RESPIRATORY AND SKIN/EYE PROTECTION SHOULD BE PERMITTED IN AREA. SOAK UP WITH SAWDUST, SAND, OIL

Neutralizing Agent: NOT PROVIDED BY MANUFACT

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

Handling and Storage Precautions:STORE IN A CLEAN, DRY AREA. DO NOT ALLOW STORED PRODUCT TO EXCEED 52C (125F) TO PREVENT LEAKAGE OR POTENTIAL RUPTURE OF CONTAINER FROM PRESSURE & EXPANSION. PROTECT FROM FREEZING TEMPERATURES. IF SOLV ENT IS STORED BELOW -10C(14F), MIX PRIOR TO USE.

Other Precautions:AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. WASH THOROUGHLY AFTER HANDLIN G. USE OF

GLOVES IS RECOMMENDED WHEN WORKING WITH THE MATERIAL CONTAINERS. MATERIAL SHOULD NOT B E DISPENSED FROM ITS CONTAINER BY POURING, EXCEPT FOR SMALL SAMPLE CONTAINERS WHERE FUME HOODS USED TO CONTROL EXPOSURE.

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

Respiratory Protection: WHERE THERE IS POTENTIAL FOR AIRBORNE EXPOSURES IN EXCESS OF APPLICABLE LIMITS, WEAR NIOSH APPROVED RESPIRATORY PROTECTION.

Ventilation: USE ONLY WITH ADEQUATE VENTI LATION.

Protective Gloves: WEAR AS APPROPRIATE IMPERVIOUS GLOVES.

Eye Protection: WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:WHERE THERE IS POTENTIAL FOR SKIN CONTACT HAVE AVAILABLE & WEAR AS APPROPRIATE IMPERVIOUS GLOVES, APRON, PANTS & JACKET. PROTECTIVE GLOVES & CHEMICAL SPLASH GOGGLES SHOULD BE USED WHEN HANDLING LIQUID

Work Hygienic Practices: KEEP CONTAINER TIGHTLY CLOSED. VAPORS ARE HEAVIER THAN AIR POSING A HAZARD OF ASPHYXIA IF THEY

ARE TRAPPED IN

ENCLOSED OR LOW PLACES.

Supplemental Safety and Health

NOTE TO PHYSICIAN:THIS MATERIAL MAY MAKE THE HEART MORE SUSCEPTIBLE TO ARRHYTHMIAS. CATECHOLAMINES, SUCH AS ADRENALINE, AND OTHER COMPOUNDS HAVING SIMILAR EFFECTS, SHOULD BE RESERVED FOR EMERGENCIES A ND THEN USED ONLY WITH SPECIAL CAUTION.

======== Physical/Chemical Properties ==========

HCC:T6

Boiling Pt:=39.C, 102.2F

Vapor Pres:464 MMHG@25C(77F)

Vapor Density:5.4

Appearance and Odor:COL

MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS.

======= MSDS Transport Information ==========

Transport Information:DOT/IMO/IATA: NOT REGULATED IN CONTAINERS LESS THAN 2600 LBS. IF GREATER THAN 2600 LBS USE: PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRANS-1,2-DICHLOROETHYLENE). HAZA RD CLASS: 9. UN NUMBER: 3082. PACKING GROUP: III. REPORTABLE QUANTITY: 1000 L

BS

(TRANS-1,2-DICHLOROETHYLENE); 2600 LBS ("VERTREL" MCA).

======== Regulatory Information ============

SARA Title III Information:TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312: ACUTE: YES, CHRONIC: NO, FIRE: NO, REACTIVITY-NO, PRESSURE-NO. SARA EXTREMELY HAZARDOUS SUBSTANCE: NO.

Federal Regulatory Information: CERCLA HAZARDOUS SUBSTANCE:

1,2-DICHLOROETHYLENE ONLY. TSCA: ALL COMPONENTS ARE LISTED ON THE TSCA PUBLIC INVENTORY. 1,1,1,2,2,3,4,5,5,5-

DECAFLUOROPENTANE (CAS#

138495-42-8) IS CONTROLLED BY TSCA SECT ION 5, SIGNIFIGANT NEW USE RULE (SNUR; 40 CFR 721.5645). THE APPROVED USES ARE: PRECISION AND GENERAL CLEANING, CARRIER FLUID, DISPLACEMENT DRYING, PRINTED CIRCUIT BOARD CLEANING, PARTICULATE REMOVAL & FILM CLEANING, PROCESS MEDIUM, HEAT TRANSFER FLUID (DIELECTRIC & NON-DIELECTRIC) AND TEST FLUID.

State Regulatory Information: NOT PROVIDED BY MANUFACTURER

 Other	Information	=======

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their pa

rticular situation.