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

Product ID:"VERTREL" MCA MSDS Date:10/27/1998 FSC:6850 NIIN:01-435-5658 MSDS Number: CDKTT === Responsible Party === Company Name: DUPONT POLYMER PROODUCTS - INDUSTRIAL Address:1007 MARKET STREET City:WILMINGTON State:DE ZIP:19898 Country:US Info Phone Num:800-441-7515 **Emergency Phone Num** :800-441-3637 Chemtrec Ind/Phone:(800)424-9300 CAGE:NO651 === 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: DUPONT POLYMER PROODUCTS - INDUSTRIAL Address:1007 MARKET STREET Box:City:WILMINGTON State:DE ZIP:19898 Country:US Phone:800-441-7515 CAGE:NO651 Company Name: DUPONT E I DE NEMOURS AND CO INC, POLYMER PRODUCT-TEFLON CO. Add

ress:1007 MARKET ST Box:City:WILMINGTON State:DE ZIP:19898 Country:US Phone:800-523-0372/346-4748 CAGE:9V583 Company Name: EI DU PONT DE NEMOURS & CO INC Address: F & FP DEPARTMENT Box:City:WILMINGTON State:DE ZIP:19898 Phone: (800) 441-7515 CAGE:77966 Company Name: SALATHE OIL CO INC Address:2226 PETERS RD Box:City:HARVEY State:LA ZIP:70058 Country:US Phone:504-366-4542 Contract Num:SP0450-99-M-C-144 CAGE:0T5C6

Ingred Name:1,1 ,1,2,3,4,4,5,5,5-DECAFLUOROPENTANE CAS:138495-42-8 Minumum % Wt:59. Maxumum % Wt:65. Other REC Limits:NONE RECOMMENDED

Ingred Name:TRANS-1,2-DICHLOROETHYLENE (SARA 313) (CERCLA) CAS:156-60-5 RTECS #:KV9400000 Minumum % Wt:35. Maxumum % Wt:41. Other REC Limits:NONE RECOMMENDED EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

LD50 LC50 Mixture:ORAL LD50 1275 MG/KG IN RATS Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Repor ts of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION: GROSS OVEREXPOSURE MAY CAUSE SUFFOCATION. REPEATED OR EXCESSIVE OVEREXPOSURE MAY CAUSE CENTRAL NERVOUS SYSTEM STIMULATION. MAY CAUSE TEMPORARY ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY . SKIN: SEVERE IRRITATION. EYES: SEVERE IRRITATION. INGESTION: MAY CAUSE PATHOLOGICAL CHANGES IN THE KIDNEYS. Explanation of Carcinogenicity:NONE OF COMPONENTS PRESENT IN MATERIAL AT CONCEN TRATIONS EQUAL TO/GREATER THAN 0.1% LISTED BY IARC, NTP, OSHA, ACGIH AS A CARCINOGEN. Effects of Overexposure: INHALATION: STIUMLATION WITH INCREASED ACTIVITY OR SLEEPLESSNESS. TREMORS, CONVULSIONS. MAY BE FOLLOWED BY WEAKNESS. SYMPTOMS MAY BE DELATED. PROLONGED EXPOSURE MAY CAUSE IRREGULAR PULSE, PALPITATIONS, OR INADEQUATE CIRCULATION. SKIN: BURNING, REDNESS, SWELLING, RASH, DISCOMFORT OR PAIN. EYES: DISCOMFORT, REDNESS, TEARING OR BLURRED VISION. Medical Cond Aggravat ed by Exposure: INCREASED SUSCEPTIBILITY TO THE EFFECTS OF THIS MATERIAL MAY BE OBSERVED IN PERSONS WITH PRE-EXISTING DISEASES OF THE LIVER, LUNGS AND CARDIOVASCULAR SYSTEMS. First Aid:INHALATION:: IMMEDIATELY REMOVE TO FRESH AIR. KEEP PERSON

CALM. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. SKIN: FLUSH WITH WATER AFTER C ONTACT. WASH CONTAMI

NATED CLOTHING BEFORE RESUE. EYE

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. CALL A PHYSICIAN. INGESTION: MATERIAL POSES AN ASPIRATION HAZARD. IF SWALLOWED, DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARDTO REDUCE THE RISK OF ASPIRATION.

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sh Point Method:TOC Flash Point:NONE Autoignition Temp:Autoignition Temp Text:N/D Lower Limits:NP **Upper Limits:NP** Extinguishing Media:WATER SPRAY OR FOG, DRY CHEMICAL, CARBON DIOXIDE. Fire Fighting Procedures: SELF-CONTAINED BREATHING APPARATUS (SCBA) **REQUIRED IF DRUMS RUPTURE & CONTENTS ARE SPILLED UNDER FIRE** CONDITIONS. Spill Release Procedures: SOAK UP WITH SAWDUST, SAND, OIL DRY OR OTHER ABSORBENT MATERIAL. Neutr alizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: STORE IN A CLEAN, DRY PLACE. DO NOT HEAT ABOVE 52 DEG C AS EXCESSIVE PRESSURE MAY CAUSE CONTAINER TO LEAK OR RUPTURE. Other Precautions: MATERIAL SHOULD NOT BE DISPENSED FROM ITS CONTAINER BY POURING EXCEPT FOR SMALL SIMPLE CONTAINERS WHERE FUME HOODS OR WHERE OTHER VENTILATION USED TO MANAGE EXPOSURE LIMITS. USE OF DRUM PUMP RECO MMEND ED FOR DISPENSING FROM SHIPPING CNTNRS. Respiratory Protection: WHERE THERES POTENTIAL FOR AIRBORNE EXPOSURES IN EXCESS OF APPLICABLE LIMITS WEAR NIOSH/MSHA APPROVED RESPIRATORY PROTECTION. Ventilation: USE ONLY WITH ADEQUATE VENTILATION. Protective Gloves: IMPERVIOUS GLOVES Eye Protection: WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES. Other Protective Equipment: IMPERVIOUS APRON, PANTS, JACKET WHERE PO TENTIAL FOR SKIN CONTACT. Work Hygienic Practices: WASH CONTAMINED CLOTHING BEFORE REUSE. Supplemental Safety and Health HCC:V7 Boiling Pt:=39.C, 102.2F Melt/Freeze Pt:M.P/F.P Text:NP Vapor Pres:464 MM/HG @25 C Vapor Density:>AIR Spec Gravity:1.41 G/CM3 Solubility in Water: TO BE DETERMINED Appearance and Odor:LIQUID, COLORLESS COLOR Percent Volatiles by Volume:NP Corrosion Rate:NP

========= Stability and Reactivity D

Stability Indicator/Materials to Avoid:YES

INCOMPATIBLE WITH BASES. INCOMPATIBLE WITH ALKALI OR ALKALINE EARTH METALS-POWERED AL, ZN, BE, ETC., MOLTEN CAUSTICS.

Stability Condition to Avoid:STABLE AT NORMAL TEMPERATURES AND STORAGE CONDITIONS.

Hazardous Decomposition Products:DECOMPOSITION PRODUCTS ARE HAZARDOUS. THIS MATERIAL CAN BE DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC) FORMS HCL & HF, POSSIBLY CARBONYL HALIDES.

Toxicological Information:ANIMAL TESTING INDICATES THAT DECAFLUOROPENTANE IS A SLIGHT SKIN IRRITANT AND A MILD EYE IRRITANT, BUT IS NOT A SKIN SENSITIZER. SINGLE EXPOSURE TO 5,000 PPMDECAFLUOROPENTANE BY INHALATION CAUSED TREM ORS. NO CARDIAC SENSITIZATION WAS OBSERVED. INHALATION, 4 HOUR LC50: 11,100 PPM IN RATS.

Waste Disposal Methods:TRE

ATMENT, STORAGE, TRANSPORTATION, AND DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE/PROVINCIAL AND FEDERAL REGULATIONS. CERCLA HAZARDOUS SUBSTANCE:YES(1,2-DICHLOROETHYLENE COMPO ONLY).

Transport Information: PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS TRANS-1,2-DICHLOROETHYLENE). NOT REGULATED BY DOT, IMO OR ICAO IN CONTAINERS LESS THAN 2,600 LBS.

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SARA Title III Information:TITLE II HAZARD CLASSIFICATION SECTIONS 311, 312: ACUTE.

Federal Regulatory Information: CERCLA HAZARDOUS SUBSTANCE: YES.

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