

DUPONT POLYMER PROODUCTS - INDUSTRIAL -- "VERTREL" MCA -- 6850-01-435-5658

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

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:E I 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

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

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

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

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: STIULATION 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 Measures =====

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.

===== Fire Fighting Measures =====

Fla

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.

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

Spill Release Procedures:SOAK UP WITH SAWDUST, SAND, OIL DRY OR OTHER ABSORBENT MATERIAL.

Neutr

alizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

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.

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

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

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

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

ata =====

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.

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===== Toxicological Information =====

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
PPM DECAFLUOROPENTANE BY INHALATION CAUSED TREMORS. NO CARDIAC
SENSITIZATION WAS OBSERVED. INHALATION, 4 HOUR LC50: 11,100 PPM IN
RATS.

===== Disposal Considerations =====

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).

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

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

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

Federal Regulatory Information: CERCLA HAZARDOUS SUBSTANCE: YES.

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