

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 Nu

m:800-441-3637

Chemtec 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.

Ad

dress: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
Repo

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 CONCENTRATIONS EQUAL TO/GREATER THAN 0.1% LISTED BY IARC, NTP, OSHA, ACGIH AS A CARCINOGEN.

Effects of Overexposure:INHALATION: STIMULATION WITH INCREASED ACTIVITY OR SLEEPLESSNESS. TREMORS, CONVULSIONS. MAY BE FOLLOWED BY WEAKNESS. SYMPTOMS MAY BE DELAYED. 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 Condition Aggravated 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 CONTACT. WASH CONTAMINATED 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 FORWARD TO REDUCE THE RISK OF ASPIRATION.

Fire Fighting Measures

FI

Flash 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.

Neutralizing 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 RECOMMENDED FOR DISPENSING FROM SHIPPING CONTAINERS.

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

Respiratory Protection: WHERE THERE'S 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
P

POTENTIAL FOR SKIN CONTACT.

Work Hygienic Practices: WASH CONTAMINATED 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 =====

Data =====

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 =====

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: TR

EATMENT, 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.

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

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

Federal Regulatory Information: CERCLA HAZARDOUS SUBSTANCE: YES.

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 particular situation.