

DUPONT E I DE NEMOURS & CO, INC, POLYMER PRODUCTS -- VERTREL XF -- 6850-01-435-5659
===== Product Identification =====

Product ID:VERTREL XF

MSDS Date:08/04/1995

FSC:6850

NIIN:01-435-5659

MSDS Number: CDKTV

=== Responsible Party ===

Company Name:DUPONT E I DE NEMOURS & CO, INC, POLYMER PRODUCTS

Address:1007 N MARKET ST

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-9442/302-9

99-4946

Emergency Phone Num:800-441-3637/800-424-9300(CHEMTREC)

CAGE:9V583

=== Contractor Identification ===

Company Name:DUPONT E I DE NEMOURS AND CO INC, POLYMER PRODUCT-TEFLON
CO.

Address:1007 MARKET ST

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-523-0372/346-4748

CAGE:9V583

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

Ingred Name:1,1,1,2,3,4,4,5,5,5-DECAFLUOROPENTANE

CAS:138495-42-8

Fraction by Wt: 99%

Other REC Limits:AEL 200 PPM (MFR)

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,

RESPIRATORY & GI TRACTS. ACUTE- MAY CAUSE EYE IRRITATION & PAIN.

PROLONGED/REPEATED SKIN CONTACT MAY CAUSE DEFATTING. INHALATION MAY

CAUSE SUFFOCATION, CNS STIMULATION FOLLOWED BY DEPRESSION. HARMFUL

IF INGESTED. MAY CAUSE VOMITING. ASPIRATION HAZARD. CHRONIC- MAY

CAUSE ITCHING OR RASHES.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SKIN RASH AND ITCHING, IRRITATION, DIZZINESS,

NERVOUSNESS, TREMORS, HEADACHE, DEPRESSION, CONFUSION, INSOMNIA,

WEAKNESS, PAIN, DIARRHEA, NAUSEA, VOMITING, BLURRED VISION

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN

DISORDERS, EYE PROBLEMS OR IMPAIRED CNS OR RESPIRATORY FUNCTION MAY

BE MORE SUSCEPTIBLE TO THE

EFFECTS OF THIS PRODUCT.

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===== First Aid Measures =====
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First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH

AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15

MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:DO

NOT INDUCE VOMITING. IF CONSCIOUS, DRINK 2 GLASSES OF WATER. SEEK

IMMEDIATE MEDICAL ATTENTION. IF SPONTANEOUS VOMITING OCCURS, KEEP

HEAD BELOW HIPS TO PREVENT ASPIRATION OF VOMITUS INTO LUNGS.

TUS INTO LUNGS.

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===== Fire Fighting Measures =====
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Flash Point Method:TOC

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL

FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED

CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL

FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE

ODE.
Unusual Fire/Explosion Hazard:TOXIC MATERIALS MAY BE FORMED. CONTAINERS
MAY RUPTURE.

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

Spill Release Procedures:PREVENT SKIN AND EYE CONTACT. VENTILATE AREA.
REMOVE OPEN FLAMES AND HOT SURFACES. SOAK UP SPILL WITH SAWDUST,
OIL DRY OR OTHER ABSORBENT MATERIAL. COLLECT AND PLACE IN A
SUITABLE CONTAINER FOR DISPOS AL. WASH SPILL SITE WITH WATER.
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, WELL-VENTILATED AREA
AWAY FROM OPEN FLAMES AND INCOMPATIBLE MATERIALS. KEEP CONTAINER
TIGHTLY CLOSED. AVOID TEMPERATURES ABOVE 125F/52C
Other Precautions:WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING
AND BEFORE EATING, DRINKING, SMOKING. KEEP OUT OF REACH OF
CHILDREN. AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN OR ON
CLOTHING. DO NOT DISPE NSE FROM ITS CONTAINER BY POURING.

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

Respiratory Protection:IF WORKING IN A CONFINED AREA OR FIGHTING FIRE,
USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED
AIR RESPIRATOR WITH FULL FACEPIECE, OPERATED IN POSITIVE PRESSURE
MODE.

Ventilation:LOCAL EXHAUST IS RECOMMENDED FOR CONFINED AREAS. GENERAL
MECHANICAL VENTILATION IS ADEQUATE FOR NORMAL USE.

Protective Gloves:RUBBER OR LATEX

Eye Protection:SAFETY GLASSES WITH SIDE SHIELD/GOGGLES

Ot

her Protective Equipment:EYE WASH STATION, SAFETY SHOWER, PROTECTIVE
CLOTHING

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. DO NOT EAT/DRINK WHILE WORKING WITH THIS
PRODUCT.

Supplemental Safety and Health

NOTE TO PHYSICIAN:ACTIVATED CHARCOAL SLURRY, 50 GRAMS IN 400 ML WATER,
MAY BE USED. ADMINSTER 5 ML/KG OR 350 ML FOR AN AVERAGE ADULT.
CATECHOLAMINE DRUGS SHOULD BE USED WITH SPECIAL CAUTION. EMESIS/GA
STRIC LAVAGE SHOULD NO

TO BE USED UNLESS JUSTIFIED. ANTIBIOTICS SHOULD BE RESERVED FOR DOCUMENTED BACTERIAL PNEUMONIA.

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

HCC:N1
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:B.P. Text:131F,55C
Vapor Pres:226 @ 77F
Spec Gravity:1.58
Solubility in Water:INSOLUBLE
Appearance and Odor:CLEAR COLORLESS LIQUID
Percent Volatiles by Volume:99

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

Stability Indicator/Materials to Avoid:YES
ALKALI
OR ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC, BERYLLIUM,
ETC.
Stability Condition to Avoid:OPEN FLAME, HIGH HEAT, GLOWING METAL
SURFACES
Hazardous Decomposition Products:MAY FORM CARBON MONOXIDE, CARBON
DIOXIDE, HYDROFLUORIC ACID, AND POSSIBLY CARBONYL FLUORIDE.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS. RECLAIM BY DISTILLATION.

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