

DU PONT E I DE NEMOURS & CO INC -- KAPTON POLYIMIDE FILM, FLUOROCARBON COATED --  
5970-01-184-3234

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

Product ID:KAPTON POLYIMIDE FILM, FLUOROCARBON COATED

MSDS Date:02/14/1994

FSC:5970

NIIN:01-184-3234

MSDS Number: CGMJR

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS & CO INC

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19898

Count

ry:US

Info Phone Num:800-441-7515/MSDS 302-992-3511

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

CAGE:18873

=== Contractor Identification ===

Company Name:E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

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

Ingred Name:TEFLON FEP PRODUCT CONTAINS INGREDIENT #1 OR #2 OR

68258-85-5 POLYFLUOROCARBON

CAS:25067-11-2

Other

REC Limits:NONE RECOMMENDED

Ingred Name:FLUORINATED ETHYLENE PERFLUOROALKYL VINYL ETHER COPOLYMER,

CAS:26655-00-5

Other REC Limits:NONE RECOMMENDED

Ingred Name:DIMETHYL ACETAMIDE

CAS:127-19-5

RTECS #:AB7700000

Fraction by Wt: < 1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:S, 10 PPM

ACGIH TLV:S, 10 PPM; 9596

Ingred Name:POLYIMIDE MFR GIVES CAS NUMBER AS 25038-81-7

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT GI

VEN FOR PRODUCT AS A WHOLE

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

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

Health Hazards Acute and Chronic:INHALATION IS NOT A PROBABLE ROUTE OF EXPOSURE FOR FILM. VAPORS & FUMES FROM HEATING "KAPTON" FLUOROCARBON COATINGS ABOVE 275C OR FROM SMOKING TOBACCO OR CIGARETTES CONTAMINATED WITH FLUOROCARBONS MAY CAUSE POLYMER FUME FEVER. SKIN CONTACT, EYE CONTACT AND INGESTION NOT PROBABLE ROUTES OF EXPOSURE FOR FILM.

Expl

anation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:POLYMER FUME FEVER: A TEMPORARY, FLU-LIKE ILLNESS OF APPROXIMATELY 24 HOURS DURATION WITH FEVER, CHILLS AND SOMETIMES COUGH.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS

OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INH ALATION: IF EXPOSED TO FUMES FROM OVERHEATING OR COMBUSTION, MOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. INGESTION: NOT A PROBABLE ROUTE OF EXPOSURE FOR FILM.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

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

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATURS AND CLOTHING TO PROTECT FROM HYDROGEN FLUORIDE WHICH REACTS WITH WATER TO FORM HYDROFLUORIC ACID.

Unusual Fire/Explosion Hazard:WEAR NEOPRENE GLOVES WHEN HANDLING REFUSE FROM A FIRE INVOLVING FLUOROCARBON RESINS.

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

Spill Release Procedures:PICK UP TO PREVENT SLIPPING

HAZARD. USE

APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEANUP.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:STORE AWAY FROM FLAMMABLE MATERIALS.  
WASH THOROUGHLY AFTER HANDLING. AVOID CONTAMINATION OF TOBACCO PRODUCTS.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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Exposure Controls/Personal Protection  
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Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS.  
Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION AS REQUIRED TO MAINTAIN EXPOSURE LEVELS.  
Protective Gloves:RECOMMENDED AS GOOD INDUSTRIAL PRACTICE.  
Eye Protection:SAFETY GLASSES RECOMMENDED.  
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.  
Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.  
Supplemental Safety and Health  
MEDICAL USE: CAUTION: DO NOT USE IN MEDICAL APPLICATIONS INVOLVING PERMANENT IMPLANTATION IN THE HUMAN BODY.

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Physical/Chemical Properties  
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HCC:N1  
Boiling Pt:B.P. Text:NOT GIVEN  
Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN  
Vapor Pres:NOT GIVEN  
Vapor Density:NOT GIVEN  
Spec Gravity:> 1.4  
Viscosity:NOT GIVEN  
Evaporation Rate & Reference:NOT GIVEN  
Solubility in Water:INSOLUBLE  
Appearance and Odor:LIGHT AMBER TRANSPARENT FILM, NO ODOR  
Percent Volatiles by Volume:1 %

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Stability and  
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Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

FINELY DIVIDED METAL POWDERS AND FLUORINE AND RELATED COMPOUNDS (EG CHLORINE TRIFLUORIDE).

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: "KAPTON" FLUOROCARBON COATINGS MAY DEGRADE AT TEMPERATURES >350C PRODUCING HYDROGEN FLUORIDE AND CARBONYL FLUORIDES.

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

Waste Disposal Methods: LANDFILL OR INC

INERATE IN COMPLIANCE WITH

FEDERAL, STATE AND LOCAL REGULATIONS. INCINERATOR SHOULD BE EQUIPPED WITH SCRUBBER TO REMOVE ACIDIC HYDROGEN FLUORIDE FROM OFF-GASES.

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