

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

Country:US

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

Emergency Ph

one 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 P
ERFLUOROALKYL 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 GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:NO Skin:N

O 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.

Explanation 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. INHALATION: 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 APPARATUS 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.

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

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

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

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.

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

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 %

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

Stability Indicator/Material

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

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.