DUPONT E I -- TEFLON FLUOROCARBON RESIN, PFA TYPE 310 MATERIAL SAFETY DATA SHEET NSN: 803000N015593 Manufacturer's CAGE: 18873 Part No. Indicator: A Part Number/Trade Name: TEFLON FLUOROCARBON RESIN, PFA TYPE 310 ______ General Information _____ Company's Name: DU PONT E I DE NEMOURS & CO INC Company's Street: 1007 MARKET STREET Company's P. O. Box: 1635 Company's City: WILMINGTON Company's State: DE Company's Country: US Company's Zip Code: 19898 Company's Emerg Ph #: 800-441-3637/800-424-9300(CHEMTREC) Company's Info Ph #: 800-441-7515/MSDS 302-992-3511 Record No. For Safety Entry: 001 Tot Safety Entries This Stk#: 001 Status: SMJ Date MSDS Prepared: 29JUL88 Safety Data Review Date: 03JUL95 MSDS Serial Number: BKRKP Hazard Characteristic Code: N1 _____ Ingredients/Identity Information Proprietary: NO Ingredient: FLUORINATED ETHYLENE PERFLUOROALKYL VINYL ETHER COPOLYMER OR PERFLUOROALKOXY POLYMER. Ingredient Sequence Number: 01 NIOSH (RTECS) Number: 1006398FE CAS Number: 26655-00-5 OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE Physical/Chemical Characteristics ______ Appearance And Odor: TRANSLUCENT PELLETS, NO ODOR. Melting Point: 576F,302C Specific Gravity: 2.1-2.2 Solubility In Water: INSOLUBLE Percent Volatiles By Volume: N/A Fire and Explosion Hazard Data Flash Point: DOES NOT FLASH Flash Point Method: OC Extinguishing Media: WATER, CO*2, FOAM, DRY CHEMICALS. Special Fire Fighting Proc: USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP (FP N) TO PROT FROM HF FUMES WHICH REACT W/WATER TO FORM HYDROFLUORIC ACID. DOES NOT BURN W/O EXT FLAME.(SUPP DATA) Unusual Fire And Expl Hazrds: TOXIC FLUORINE COMPOUNDS EVOLVED IN FIRE. Reactivity Data Cond To Avoid (Stability): TEFLON PFA WILL BURN IN A ATMOSPHERE OF 95% OXYGEN WHEN AN IGNITION SOURCE IS PRESENT. Materials To Avoid: MOLTEN ALKALI METALS, INTERHALOGEN COMPOUNDS. Hazardous Decomp Products: HF, CARBONYL FLUORIDE, CO & LOW MOLECULAR WEIGHT FLUOROCARBONS. >270C TEFLON PFA CAN EVOLVE TOXIC GASEOUS (SUPP DATA) Conditions To Avoid (Poly): NONE SPECIFIED BY MANUFACTURER. Health Hazard Data ______ LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Route Of Entry - Inhalation: YES Route Of Entry - Skin: NO Route Of Entry - Ingestion: NO Health Haz Acute And Chronic: (ACUTE) INGEST: NOT TOXIC. SKIN: NOT TOXIC. EYE: MECHANICAL IRRIT. INHAL: WHEN THERMALLY DECOMPOSED BY HEATING >270C, OR BY SMOKING TOBACCO OR CIGARETTES CONTAM W/POLYMER DUST, MAY CAUSE POLYMER FUME FEVER. SYMP ARE FLU-LIKE, W/CHILLS & FEVER, WHICH MAY NOT OCCUR UNTIL SEV HRS AFTER EXPOS & PASS (SEE EFTS OF OVEREXP) Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO Explanation Carcinogenicity: NOT RELEVANT Signs/Symptoms Of Overexp: HLTH HAZ: OFF WITHIN 36-48 HRS, EVEN IN ABSENCE

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OF TREATMENT. DUPONT RECOMMENDS TREATING POLYMER DUST AS A NUISANCE PARTICULATE AND HAS ESTABLISHED AN AEL OF 10 MG/M3 TOTAL DUST, THE SAME AS THE TLV FOR OTHER NUISANCE PARTICULATES. Med Cond Aggravated By Exp: NONE KNOWN. Emergency/First Aid Proc: IF EXPOSED TO FUMES FROM OVERHEATING OR COMBUSTION, MOVE TO FRESH AIR. CONSULT PHYSICIAN IF SYMPTOMS PERSIST. FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. CONSULT PHYSICIAN IF SYMP PERSIST. IF MOLTEN POLYMER CONT SKIN, COOL RAPIDLY W/COLD WATER. DO NOT ATTEMPT TO PEEL POLYMER FROM SKIN. OBTAIN MEDICAL ATTENTION FOR THERMAL BURN. INGEST: CALL MD IMMED (FP N). Precautions for Safe Handling and Use Steps If Matl Released/Spill: SWEEP UP TO AVOID SLIPPING HAZARD. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. Waste Disposal Method: LANDFILL OR INCINERATION IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. INCINERATION REQUIRES SCRUBBING OF GASEOUS PRODUCTS TO REMOVE HYDROGEN FLUORIDE. Precautions-Handling/Storing: AVOID CONTAM. KEEP CONTAINERS CLOSED. BEFORE USING, READ TEFLON "SAFETY IN HANDLING AND USE", BULLETIN E-35824-1. Other Precautions: AVOID CONTAMINATION OF CIGARETTES OR TOBACCO WITH POLYMER DUST. _____ Control Measures Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR WHEN TEMPERATURE EXCEEDS 270C IF VENTILATION IS INADEQUATE TO MAINTAIN HF CONC BELOW THE PERMISSIBLE EXPOSURE LIMIT. Ventilation: USE LOCAL EXHAUST TO COMPLETELY REMOVE VAPORS AND FUMES LIBERATED DURING HOT PROCESSING FROM THE WORK AREA. Protective Gloves: NEOPRENE GLOVES. Eye Protection: CHEMICAL WORKERS GOGGLES (FP N). Other Protective Equipment: LONG SLEEVE SHIRT. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Suppl. Safety & Health Data: FIRE FIGHT PROC: WEAR NEOPRENE GLOVES WHEN HNDLG REFUSE FROM A FIRE INVOLVING TEFLON. HAZ DECOMP PRODS: MATERIALS SUCH AS HYDROGEN FLUORIDE AND PERFLUOROOLEFINS. THE OSHA PERMISSIBLE EXPOSURE LIMIT FOR HF IS 3 PPM. PARTICULATE MATTER EVOLVED FROM OVERHEATING MAY CAUSE POLYMER FUME FEVER (SEE HLTH HAZ). _____ Transportation Data Trans Data Review Date: 91275 DOT PSN Code: ZZZ DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION IMO PSN Code: ZZZ IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION IATA PSN Code: ZZZ IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION AFI PSN Code: ZZZ AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION Additional Trans Data: NOT REGULATED FOR TRANSPORTATION _____ Disposal Data _____ Label Data _____ Label Required: YES Label Status: G Common Name: TEFLON FLUOROCARBON RESIN, PFA TYPE 310 Special Hazard Precautions: (ACUTE) INGEST: NOT TOXIC. SKIN: NOT TOXIC. EYE: MECHANICAL IRRIT. INHAL: WHEN THERMALLY DECOMPOSED BY HEATING >270C, OR BY SMOKING TOBACCO OR CIGARETTES CONTAM W/POLYMER DUST, MAY CAUSE POLYMER FUME FEVER. SYMP ARE FLU-LIKE, W/CHILLS & FEVER, WHICH MAY NOT OCCUR UNTIL SEV HRS AFTER EXPOS & PASS (SEE EFTS OF OVEREXP) HLTH HAZ: OFF WITHIN 36-48 HRS, EVEN IN ABSENCE OF TREATMENT. DUPONT RECOMMENDS TREATING POLYMER DUST AS A NUISANCE PARTICULATE AND HAS ESTABLISHED AN AEL OF 10 MG/ M3 TOTAL DUST, THE SAME AS THE TLV FOR OTHER NUISANCE PARTICULATES. Label Name: E.I.DUPONT DE NEMOURS & CO INC Label Street: 1007 MARKET STREET Label City: WILMINGTON Label State: DE Label Zip Code: 19898 Label Country: US Label Emergency Number: 800-441-3637;800-424-9300(CHEMTREC)