

E I DUPONT -- DELRIN ACETAL RESIN, 550SA NC010
MATERIAL SAFETY DATA SHEET
NSN: 801000N015404
Manufacturer's CAGE: 18873
Part No. Indicator: A
Part Number/Trade Name: DELRIN ACETAL RESIN, 550SA NC010

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General Information
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Company's Name: E. I. DUPONT DE NEMOURS & CO INC
Company's Street: 1007 MARKET STREET
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
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 21DEC88
Safety Data Review Date: 24MAY95
MSDS Preparer's Name: J B ARMITAGE
Preparer's Company: SAME
MSDS Serial Number: BKQCY
Hazard Characteristic Code: N1

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: POLYOXYMETHYLENE, POLYACETAL
Ingredient Sequence Number: 01
CAS Number: 9002-81-7
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ADDITIVES; ANTIOXIDANTS, LUBRICANTS AND STABILIZERS.
Ingredient Sequence Number: 02
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

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Physical/Chemical Characteristics
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Appearance And Odor: GRANULES OR POWDER WITH SLIGHT FORMALDEHYDE ODOR.
Melting Point: 342F,172C
Specific Gravity: 1.42
Solubility In Water: INSOLUBLE
Percent Volatiles By Volume: N/A

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Fire and Explosion Hazard Data
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Flash Point: 612F,322C
Extinguishing Media: WATER, CO*2, FOAM, DRY CHEMICAL.
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT (FP N) FOR PROTECTION FROM FUMES OF FORMALDEHYDE.
Unusual Fire And Expl Hazrds: BURNS WITH A COLORLESS FLAME. DELRIN DUST
CLOUD IGNITION TERMPERATURE 440C.

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Reactivity Data
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Cond To Avoid (Stability): HEATING ABOVE 230C - FORMS FORMALDEHYDE.
Materials To Avoid: STRONG ACIDS AND BASES (DECOMPOSES FORMING
FORMALDEHYDE). STRONG OXIDIZING AGENTS.
Hazardous Decomp Products: CO & FORMALDEHYDE. FORMALDEHYDE IS CLASSIFIED
AS AN ANIMAL CARCIN, & HAS AN OSHA PERMISSIBLE EXPOS LIMIT OF (SUPP DATA)
Conditions To Avoid (Poly): NONE SPECIFIED BY MANUFACTURER.

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Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: (ACUTE) INGEST: NOT A PROBABLE ROUTE OF
EXPOSURE. SKIN: NOT TOXIC. HOT POLYMER WILL CAUSE THERMAL BURNS. EYE: MECH
IRRIT. INHAL: FORMALDEHYDE IS HIGHLY IRRIT TO EYES & UPPER RESP TRACT.
(CHRONIC) FORMALDEHYDE RELEASE IN SM QTY DURING MELT PROCESSING IS
CLASSIFIED AS AN ANIMAL CARCINOGEN.
Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS.
Med Cond Aggravated By Exp: INDIVIDUALS WITH PREEXISTING DISEASES OF THE LUNGS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE TO FORMALDEHYDE.
Emergency/First Aid Proc: IF EXPOSED TO FUMES FROM OVERHEATING OR COMBUSTION, MOVE TO FRESH AIR. CONSULT A PHYSICIAN IF SYMPTOMS PERSIST. FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF SYMPTOMS PERSIST. IF MOLTEN POLYMER CONTACTS SKIN, COOL RAPIDLY WITH COLD WATER. DO NOT ATTEMPT TO PEEL POLYMER FROM SKIN. OBTAIN MEDICAL ATTN FOR THERMAL BURN.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SWEEP UP TO PREVENT A SLIPPING HAZARD.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: INCINERATION OR LANDFILL IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
Precautions-Handling/Storing: DRY STORAGE. KEEP CNTNRS CLSD TO PVNT CONTAM. OPEN CNTNRS ONLY IN WELL-VENT AREA. READ "SAFETY PREC TO OBSERVE WHEN HANDLING MOLTEN (SEE OTHER PREC)
Other Precautions: HNDLG/STOR PREC: DELRIN ACETAL RESIN" E-49703 AND "SAFETY PREC" IN MOLDING MANUAL E-09143, BEFORE USING DELRIN. AVOID PROLONGED HEATING ABOVE MELTING POINT (178C).

Control Measures

Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N) IF LOCAL EXHAUST VENTILATION DOES NOT KEEP FORMALDEHYDE CONC BELOW 1 PPM.
Ventilation: LOCAL EXHAUST AT PROCESSING EQUIPMENT.
Protective Gloves: PROTECTIVE GLOVES.
Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).
Other Protective Equipment: LONG SLEEVE COTTON SHIRT AND LONG PANTS.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Suppl. Safety & Health Data: FL PT METH: ASTM 1929-62. HAZ DECOMP PRODS: 1 PPM (8-HR TWA), AND A SHORT TERM EXPOSURE LIMIT OF 2 PPM (15 MINUTE).

Transportation Data

Trans Data Review Date: 91274
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
Technical Review Date: 20MAY91
Label Date: 20MAY91
Label Status: G
Common Name: DELRIN ACETAL RESIN, 550SA NC010
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE: CAUSES RESPIRATORY TRACT IRRITATION. AVOID BREATHING POWDER. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. CAUSES EYE IRRITATION. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING. COMBUSTIBLE. KEEP AWAY FROM HEAT AND FLAME. CHRONIC:HEATING ABOVE 230C CAUSES THE FORMATION OF FORMALDEHYDE. REFER TO MSDS.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
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Label Street: 1007 MARKET STREET
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