

E I DUPONT -- DELRIN ACETAL RESIN, 150SA NC010
MATERIAL SAFETY DATA SHEET
NSN: 801000N015396
Manufacturer's CAGE: 18873
Part No. Indicator: A
Part Number/Trade Name: DELRIN ACETAL RESIN, 150SA NC010

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General Information
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Company's Name: E I DU PONT DE NEMOURS & CO
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: BKQCP
Hazard Characteristic Code: N1

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: POLYOXYMETHYLENE, POLYACETAL
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: 1006324PP
CAS Number: 9002-81-7
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: ADDITIVES:ANTIOXIDANTS, LUBRICANTS & STABILIZERS.
Ingredient Sequence Number: 02
NIOSH (RTECS) Number: 1006325AA
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, 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, CARBON DIOXIDE, FOAM, DRY CHEMICAL.
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT (FP N). PROTECTION FROM FUMES OF FORMALDEHYDE.
Unusual Fire And Expl Hazrds: BURNS W/COLORLESS FLAME. DELRIN DUST CLOUD
IGNITION TEMPERATURE 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 IS CLASSIFIED AS ANIMAL
CARCINOGEN & HAS OSHA PEL OF 1 PPM (8-HR TWA) & STEL OF 2 PPM (15-MIN).
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: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: ACUTE:INGEST:NOT A PROBABLE ROUTE OF EXPOS.
SKIN:NOT TOXIC. HOT POLYMER WILL CAUSE THERMAL BURNS. EYE:MECHNICAL IRRIT.
FORMALDEHYDE RELEASED IN SMALL QUANTITY 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: NONE SPECIFIED BY MANUFACTURER.
Med Cond Aggravated By Exp: PERSONS W/PRE-EXISTING DISEASES OF LUNGS MAY
HAVE INCREASED SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE EXPOSURE TO
FORMALDEHYDE.
Emergency/First Aid Proc: INHAL:MOVE TO FRESH AIR. CALL MD IF SYMPTOMS
PERSIST. EYES:FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL MD IF
SYMPTOMS PERSIST. SKIN:IF MOLTEN POLYMER CONTACTS SKIN, COOL RAPIDLY W/COLD
WATER. DO NOT ATTEMPT TO PEEL POLYMER FROM SKIN. GET MD FOR THERMAL BURN.
INGEST:CALL MD IMMEDIATELY (FP N).

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SWEEP UP TO PREVENT SLIPPING HAZARD.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: INCINERATION OR LANDFILL IN COMPLIANCE W/FEDERAL,
STATE AND LOCAL REGULATIONS.
Precautions-Handling/Storing: DRY STORAGE. KEEP CNTNRS CLOSED TO PREVENT
CONTAM. OPEN CNTNRS ONLY IN WELL-VENT AREA. READ "SAFETY PRECAUTIONS TO
OBSERVE WHEN HANDLING (SUPP DATA)
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

Control Measures

Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR IF LOCAL EXHAUST
VENTILATION DOES NOT KEEP FORMALDEHYDE CONCENTRATION BELOW 1 PPM.
Ventilation: LOCAL EXHAUST AT PROCESSING EQUIPMENT.
Protective Gloves: PROTECTIVE GLOVES REQUIRED.
Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).
Other Protective Equipment: LONG SLEEVE COTTON SHIRT & LONG PANTS IF
HANDLING MOLTEN POLYMER.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
MOLTEN DELRIN ACETAL RESIN" E-49703 & "SAFETY PRECAUTIONS" IN MOLDING
MANUAL E-09143, BEFORE USING DELRIN. AVOID PROLONGED HEATING ABOVE MELTING
POINT (178C).

Transportation Data

Trans Data Review Date: 91268
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: 22MAY91
Label Date: 21MAY91
Label Status: G
Common Name: DELRIN ACETAL RESIN, 150SA 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:MAY CAUSE EYE AND UPPER RESPIRATORY
TRACT IRRITATION. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.
AVOID PROLONGED HEATING ABOVE MELTING POINT (178C). HEATING ABOVE 230C
FORMS FORMALDEHYDE A PROBABLE HUMAN CARCINOGEN. KEEP CONTAINERS CLOSED TO
PREVENT CONTAMINATION. OPEN CONTAINERS ONLY IN WELL-VENTILATED AREAS.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: E I DU PONT DE NEMOURS & CO
Label Street: 1007 MARKET STREET
Label City: WILMINGTON
Label State: DE
Label Zip Code: 19898
Label Country: US

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