

MSDS**MATERIAL SAFETY DATA SHEET**

MSDS# 004

1. CHEMICAL PRODUCT AND COMPANY INFORMATION**PRODUCT NAME:** UNITAL***C** NYTEF PLASTICS ACETAL COPOLYMER PRODUCTS
DELTRIN/ACETAL**PRODUCT USE:** HIGH PERFORMANCE THERMOPLASTIC STOCK SHAPES FOR
SUBSEQUENT FABRICATION.**MANUFACTURER:** NYTEF PLASTICS, LTD.
98-34 Jamaica Avenue
Woodhaven, NY 11421**PHONE NUMBERS****PRODUCT INFORMATION:** 718 441-6867 (Monday - Friday, 9am - 5 pm)
800 523-8912 (Monday - Friday, 8.30 am - 5 pm)**TRANSPORT EMERGENCY:** 800 424-9300 (CHEMTREC) (24 hrs)**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>INGREDIENTS NAME /CHEMICAL NAME/</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
POLYOXYMETHYLENE COPOLYMER (POM); ACETAL COPOLYMER	25214-85-1	95 - 100
CARBON BLACK	1333-86-4	5 - 0

INGREDIENTS (Remakes)

SECTION 313 SUPPLIER NOTIFICATION

This product contains no known toxic chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

3. HEALTH HAZARDS IDENTIFICATION**ACUTE OR IMMEDIATE EFFECTS/ROUTES OF EXPOSURE****SKIN:** MOLTEN ACETAL MAY CAUSE THERMAL BURNS.**EYES:** CONTACT WITH POWDER OR DUST MAY CAUSE MECHANICAL IRRITATION.**INHALATION:** SHAPES ARE NOT CONSIDERED AN INHALATION HAZARD.**INGESTION:** NOT A PROBABLE ROUTE OF EXPOSURE.

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3. HAZARDS IDENTIFICATION (continued)

LONG TERM/DELAYED EFFECTS:
NONE KNOWN.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
NONE KNOWN.

CHRONIC EFFECTS: CHRONIC INHALATION STUDIES IN ANIMALS HAVE SHOWN THAT FORMALDEHYDE CAUSES NASAL CANCER IN RATS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS CLASSIFIED FORMALDEHYDE AS A CARCINOGEN IN GROUP 2A, AND THE NATIONAL TOXICOLOGY PROGRAM INCLUDED FORMALDEHYDE IN ITS ANNUAL REPORT ON CARCINOGENS. THE IARC HAS EVALUATED CARBON BLACK, WHICH MAY BE CONTAINED IN BLACK PRODUCTS, AS POSSIBLE CARCINOGENIC TO HUMANS (GROUP 2B). THE CARBON BLACK IN THIS PRODUCT IS WETTED BY THE POLYMER SYSTEM, AND THEREFORE PRESENTS MINIMAL LIKELIHOOD OF EXPOSURE UNDER NORMAL CONDITIONS OF HANDLING AND MACHINING.

4. FIRST AID MEASURES

SKIN: IF MOLTEN ACETAL CONTACTS SKIN, COOL RAPIDLY WITH COLD WATER. DO NOT ATTEMPT TO PEEL ACETAL FROM SKIN. OBTAIN MEDICAL ATTENTION FOR THERMAL BURN.

EYES: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF SYMPTOMS PERSIST.

INHALATION: IF EXPOSURE TO FUMES FROM OVERHEATING, MOVE TO FRESH AIR. CONSULT A PHYSICIAN IF SYMPTOMS PERSIST.

5. FIRE FIGTHING MEASURES

FLASH POINT: 320 deg. C (608 deg. F). METHOD ASTM D1929.

UNUSUAL HAZARDS: FORMALDEHYDE MAY BE RELEASED IF PRODUCT IS EXPOSED TO EXCESSIVE HEAT OR FIRE. AIRBORNE DUST MAY BE EXPLOSIVE. EXPLOSIBILITY OF DUSTS INCREASES WITH DECREASING PARTICULATE SIZE, SO THE PRODUCTION OF FINES SHOULD BE MINIMIZED.

EXTINGUISHING MEDIA: WATER SPRAY OR ANY CLASS A EXTINGUISHING AGENT.

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5. FIRE FIGHTING MEASURES (continued)

SPECIAL FIRE FIGHTING INSTRUCTIONS / PRECAUTIONS:

FIRE FIGHTERS AND OTHERS EXPOSED TO PRODUCTS OF COMBUSTION SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF - CONTAINED, BREATHING APPARATUS. FIRE FIGHTING EQUIPMENT SHOULD BE THOROUGHLY DECONTAMINATED AFTER USE.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE: CLEAN UP BY VACUUMING OR SWEEPING TO PREVENT FALLS.

7. HANDLING AND STORAGE

HANDLING: OPEN CONTAINERS ONLY IN WELL-VENTILATED AREA.

STORAGE: DRY STORAGE, KEEP CONTAINERS CLOSED TO PREVENT CONTAMINATION.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: LOCAL EXHAUST AT PROCESSING EQUIPMENT TO KEEP PARTICULATES BELOW 15 mg/m³, THE OSHA LIMIT FOR NUISANCE DUSTS. GRINDING AND MACHINING OF PARTS SHOULD BE REVIEWED TO ASSURE THAT PARTICULATE LEVELS ARE KEPT AT RECOMMENDED LEVELS. ALSO, FORMALDEHYDE FUMES MAY BE RELEASED DURING FABRICATION.

PROTECTIVE EQUIPMENT:

SKIN: PROTECTIVE GLOVES ARE REQUIRED WHEN HANDLING HOT POLYMER. LONG SLEEVE COTTON SHIRT AND LONG PANTS WHEN HANDLING MOLTEN POLYMER.

EYE: SAFETY GLASSES ARE RECOMMENDED TO PREVENT PARTICULATE FROM ENTERING EYES WHILE GRINDING OR MACHINING.

RESPIRATOR: NONE UNDER NORMAL PROCESSING, IF VENTILATION IS ADEQUATE. IF FORMALDEHYDE CONCENTRATION IS ABOVE 1 ppm. (TEMPERATURE EXCEED 240 deg. C /464 deg. F/) A PROPERLY FITTED NIOSH APPROVED RESPIRATOR IS REQUIRED.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)**EXPOSURE GUIDELINES:**

GRINDING AND MACHINING OF PARTS SHOULD BE REVIEWED TO ASSURE THAT PARTICULATE LEVEL ARE KEPT BELOW RECOMMENDED STANDARDS. THIS MATERIAL MAY CONTAIN CARBON BLACK. SEE THE EXPOSURE LIMITS BELOW:

<u>INGREDIENT</u>	<u>AGENCY</u>	<u>VALUE</u>
PARTICULATES	PEL (OSHA)	15 mg/cu m /total dust/ 5 mg/cu m /respirable dust/
FORMALDEHYDE	PEL (OSHA)	0.75 ppm, 0.92 mg/m ³ , 8h. TWA STEL 2 ppm, 2.5 mg/m ³
CARBON BLACK	TLV (ACGIH) OSHA PEL ACGIH TLV	Ceiling 0.3 ppm, 0.37 mg/m ³ , A2 3.5 mg/cu m 3.5 mg/cu m

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: STOCK SHAPE MAY BE RODS OR PLATES DIFFERENT SIZES.
ODOR: ESSENTIALLY ODORLESS.
MELTING POINT: 160 - 172 deg C (320 - 342 deg F)
SOLUBILITY IN WATER: INSOLUBLE
SPECIFIC GRAVITY: 1.38 - 1.45
PERCENT VOLATILES: < 1 % wt.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE AT NORMAL TEMPERATURES AND STORAGE CONDITIONS.
CONDITIONS TO AVOID: HEATING ABOVE 240 deg. C (464 deg. F - FORMS FORMALDEHYDE).
MATERIALS TO AVOID: STRONG INORGANIC ACIDS (HYDROCHLORIC, SULFURIC) AND STRONG OXIDIZING AGENTS.
 AVOID CONTACT WITH POLYVINYLCHLORIDE (PVC) OR OTHER CHLORINE CONTAINING POLYMERS, WHEN PROCESSING ACETAL COPOLYMER (TO AVOID ACID FORMATION).

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY: ACETAL COPOLYMER EXTRUDED SHAPES ARE HARMLESS.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:
 NO SPECIFIC INFORMATION IS AVAILABLE WHICH ADDRESSES MEDICAL CONDITIONS THAT ARE GENERALLY RECOGNIZED AS BEING AGGRAVATED ON THIS PRODUCT.

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12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: TOXICITY IS EXPECTED TO BE LOW BASED ON INSOLUBILITY OF POLYMER IN WATER.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL: PREFERRED OPTIONS FOR DISPOSAL ARE: RECYCLING, INCINERATION WITH ENERGY RECOVERY, AND LANDFILL. TREATMENT AND DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

14. TRANSPORT INFORMATION

DOT HAZARD CLASS: NOT REGULATED.
SHIPPING NAME: NOT REGULATED.

15. REGULATORY INFORMATION

TSCA INVENTORY STATUS:
IN COMPLIANCE WITH TSCA INVENTORY REQUIREMENTS FOR COMMERCIAL PURPOSES.

STATE REGULATIONS

STATE RIGHT TO KNOW LAWS:

NO SUBSTANCES ON THE STATE HAZARDOUS LIST, FOR THE STATES INDICATED BELOW, ARE USED IN THE MANUFACTURE OF PRODUCTS ON THIS MSDS, WITH THE EXCEPTIONS INDICATED. WHILE WE DO NOT SPECIFICALLY ANALYZE THESE PRODUCTS, OR THE RAW MATERIALS USED IN THEIR MANUFACTURE, FOR SUBSTANCES ON VARIOUS STATE HAZARDOUS SUBSTANCES LISTS, TO THE BEST OF OUR KNOWLEDGE THE PRODUCTS ON THIS MSDS CONTAIN NO SUCH SUBSTANCES EXCEPT FOR THOSE SPECIFICALLY LISTED BELOW:

PENNSYLVANIA:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE: NONE KNOWN.
SUBSTANCES ON THE PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 0.01% OR MORE: NONE KNOWN.

CALIFORNIA PROPOSITION 65:

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM - FORMALDEHYDE.

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15. REGULATORY INFORMATION (continued)

**SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS
SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE
(0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR
TERATOGENS) - NONE KNOWN.**

HMIS RATING

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPE	A

16. OTHER INFORMATION

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The information set forth herein has been gathered from standard reference materials and/or supplier tests data and is, to the best knowledge and belief of NYTEF PLASTICS, Ltd., accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones that exist. NYTEF PLASTICS, Ltd. makes no warranties expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefor.

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