



**Expect Service**

**Radiation Products Design Inc**

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## SAFETY DATA SHEET

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### RPD INFORMATION

<b>Address</b>	5218 Barthel Industrial Drive Albertville, MN 55301
<b>Website</b>	<a href="http://www.rpdinc.com">www.rpdinc.com</a>
<b>Email</b>	<a href="mailto:sales@rpdinc.com">sales@rpdinc.com</a>
<b>Phone</b>	763-497-2071 or 800-497-2071
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### RAW MATERIAL INFORMATION

**NYLON**



## MSDS - Nylon 6

I. IDENTIFICATION AND EMERGENCY INFORMATION							
PRODUCT NAME	Nylon						
PRODUCT DESCRIPTION	Nylon 6 General Purpose Resin						
APPEARANCE	Clear to Colors						
EMERGENCY TELEPHONE NUMBER	(614) 797-2300						
CONTACT	Michael Grubb or Tom Malloy						
II. COMPONENTS AND HAZARD INFORMATION							
CHEMICAL COMPONENTS	CAS #	WEIGHT %	OSHA PEL	ACGIH TLV	NTP LISTED	IARC LISTED	
Nylon 6	25038-54-4	97+	NA	NA	NA	NA	
Potassium Bromide (certain HS grades)	2/3/7758	0.1-1	NA	NA	NA	NA	
Caprolactam	105-60-2	<1	NA	NA	NA	NA	
This product contains no hazardous chemicals as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.							
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM							
HEALTH	0	FLAMMABILITY	0	REACTIVITY	0	SPECIAL	0
III. TYPICAL PHYSICAL PROPERTIES							
BOILING POINT	Not Applicable		SOLUBILITY IN WATER		Insoluble		
VAPOR PRESSURE (mm Hg@20C)	Not Applicable		SPECIFIC GRAVITY (water=1)		1.13-1.15		
VAPOR DENSITY (air=1)	Not Applicable		PERCENT VOLATILES (volume)		Not determined		
APPEARANCE	Clear to beige solid pellets		EVAPORATION RATE (ether=1)		Not Applicable		
ODOR	Possible slight organic odor		pH DATA		Not Applicable		
IV. FIRE AND EXPLOSION HAZARD INFORMATION							
FLASH POINT	FLAMMABILITY LIMITS (% BY VOLUME IN AIR)				AUTOIGNITION TEMPERATURE		
NA	LEL:	NA	UEL:	NA	NA		
FIRE & EXPLOSION HAZARDS	Exposure to fire will release irritating, toxic and/or flammable fumes and vapors.						
EXTINGUISHING MEDIA	Use any standard agent (water, foam, dry chemical, carbon dioxide).						
FIREFIGHTING PROCEDURES	Wear self-contained, positive-pressure breathing apparatus (full face-piece type) and full protective clothing.						
PROTECTIVE EQUIPMENT	Wear self-contained, positive-pressure breathing apparatus (full face-piece type) and full protective clothing.						
V. REACTIVITY INFORMATION							
STABILITY (CONDITIONS TO AVOID)	Product is stable. Avoid exposure to open flame or temperatures exceeding optimum recommended processing temperatures. Avoid prolonged exposure to processing temperatures.						
CHEMICAL INCOMPATIBILITY	Strong mineral acids.						
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal breakdown products may include a complex mixture of compounds, including but not limited to carbon monoxide, ammonia, aliphatic amines, ketones, nitriles, and hydrogen cyanide, which may be flammable, toxic and/or irritating. The specific materials generated will vary depending on the additives and colorants used, specific temperature, time of exposure and other immediate environmental factors.						
CORROSIVE TO METAL	No.						
OXIDIZER	No						

VI. HEALTH HAZARD AND FIRST AID INFORMATION			
ENTRY ROUTES		EFFECTS OF OVEREXPOSURE	
INHALATION		Thermal processing fumes/vapors or dusts may irritate the mucous membranes of the nose and throat.	
EYE CONTACT		Contact with powders or dusts may cause mechanical irritation. Thermal processing fumes/vapors may irritate the eyes.	
SKIN CONTACT		Pellets or dusts in contact with skin may cause irritation. Hot or molten polymer can burn the skin.	
INGESTION		Ingestion is not a likely route of exposure. Ingestion of product may cause gastrointestinal discomfort.	
ENTRY ROUTES		EMERGENCY FIRST AID PROCEDURES	
INHALATION		Remove person to fresh air. If irritation develops or persists, obtain medical attention.	
EYES		Flush eyes with running water. If irritation develops or persists, obtain medical attention.	
SKIN		For irritation, flush the skin with cool running water. Wash the affected area with mild soap and water. Obtain medical attention if irritation persists. If hot or molten polymer burns the skin, immerse the burned area in cold running water and obtain medical attention immediately.	
INGESTION		If product is ingested, seek medical attention.	
VII. OCCUPATIONAL CONTROL PROCEDURES			
VENTILATION		Good manufacturing practice and good industrial hygiene practice recommend the use of local exhaust ventilation at thermal processing points.	
RESPIRATORY		If dusty conditions exist, use a mechanical filter respirator approved by NIOSH. For exposures to fumes and vapors in excess of permitted exposure limits, use an organic vapor cartridge respirator approved by NIOSH.	
EYE PROTECTION		Wear safety glasses with sideshields as a minimum. Use a faceshield when processing molten material.	
SKIN PROTECTION		Wear gloves when handling drums and when handling hot polymer. Use arm protection to protect against thermal burns.	
HANDLING AND STORAGE		To maintain product quality store in a cool, dry area. Keep in a tightly sealed container.	
VIII. ENVIRONMENTAL CONTROL PROCEDURES			
SPILL AND LEAK PROCEDURES		Sweep or vacuum material and place in container for re-use or disposal.	
WASTE DISPOSAL METHODS		Do not dump into sewers, on the ground, or into any body of water. For unused and uncontaminated product preferred options include sending to a licensed recycler, reclaimer, incinerator or other thermal distribution device. As a permitted polymer recycling operation and as a service to its customers, Geo-Tech will assist in finding appropriate routes for disposing of unused, uncontaminated product. Contact Geo-Tech for details.	
IX. REGULATORY INFORMATION			
US EPA SARA HAZARD CATEGORY: This product has been reviewed according to the hazard categories under sections 311 and 312 of SARA Title III and is considered not to have met any hazard category.		STATE RIGHT TO KNOW: This product is not known to contain any substances subject to the disclosure requirements of New Jersey and Pennsylvania.	
TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.		CANADIAN WHMIS INFORMATION: Not a controlled product under the Canadian Workplace Hazardous Materials Information System.	
US DEPARTMENT OF TRANSPORTATION (DOT): Not regulated by DOT when shipped domestically by land.		CANADIAN TDG INFORMATION: Not regulated by TDG when shipped domestically by land.	
X. ADDITIONAL INFORMATION			
WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH ON THIS DATA SHEET ARE BELIEVED TO BE ACCURATE AS OF THE PRESENT DATE, METSS MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.			
DATE PREPARED		30-Jun-01	
REVISION DATE		24-Sep-01	
EXPLANATION OF		NE=NOT ESTABLISHED	
		ND=NOT DETERMINED	
		LT=LESS THAN	
		TR=TRACE	