



Peninsula Plastics Recycling

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Material Safety Data Sheet MSDS

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PRODUCT IDENTIFICATION

DATE: Nov 01, 2009

PRODUCT NAME: RPET RESIN
SYNONYMS: RECYCLED POLYETHYLENE TEREPHTHALATE
CHEMICAL FAMILY: POLYMER (THERMOPLASTIC POLYESTER)
CHEMICAL FORMULA: $(C_{10}O_4H_8)_nOH$
CHEMICAL STRUCTURE:

HAZARDOUS INGREDIENTS

INGREDIENT: D.N.A.

PHYSICAL DATA

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
MELTING POINT	245	248	°C.	
DENSITY	50	62	LB/FT ³	
SOLUBILITY IN WATER				INSOLUBLE
SPECIFIC GRAVITY	1.36	1.42	WATER = 1	
DECOMPOSITION TEMP	250		°C.	
OTHER	20	25		CARBOXYL NO.

APPEARANCE AND ODOR: ODORLESS PELLETS

FIRE AND EXPLOSION HAZARDS

EXTINGUISHING MEDIA:
CARBON DIOXIDE, WATER SPRAY, FOAM OR DRY CHEMICAL.

SPECIAL PROCEDURES:
USE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING

UNUSUAL HAZARDS:
MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS
DECOMPOSITION PRODUCTS OF MOLTEN POLYMER MAY IGNITE
PROLONGED DRYING IN AIR AT TEMPERATURES GREATER THAN 195° C. CAN GENERATE
ACETALDEHYDE WHICH CAN CREATE A FIRE HAZARD.

HEALTH INFORMATION

TOXICITY: THIS PRODUCT IS NOT LISTED BY OSHA, NTP OR IARC AS A CARCINOGEN.

EMERGENCY AND FIRST AID PROCEDURE

INHALATION:

D.N.A.

EYE CONTACT:

FLUSH EYES THOROUGHLY WITH WATER FOR 15 MINUTES.

SKIN CONTACT:

D.N.A.

INGESTION:

CONSULT PHYSICIAN.

ADDITIONAL MEASURES:

NONE FOUND.

REACTIVITY DATA

CHEMICAL STABILITY:

STABLE

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

CONDITIONS TO AVOID:

AVOID CONTACT WITH OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY GENERATE OXIDES OF CARBON.

SPILL OR LEAK PROCEDURES / WASTE DISPOSAL

SPILL OR LEAK PROCEDURES:

COLLECT INTO SUITABLE CONTAINER.

WASTE DISPOSAL:

DISPOSE OF OR INCINERATE IN ACCORDANCE WITH LOCAL REGULATIONS.

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:

NIOSH APPROVED DUST RESPIRATOR RECOMMENDED.

PROTECTIVE CLOTHING:

SUITABLE CLOTHING AND GLOVES TO AVOID SKIN CONTACT WITH HOT MATERIAL.

SAFETY GLASSES

ADDITIONAL PROTECTIVE MEASURES:

USE LOCAL EXHAUST VENTILATION.

GOOD INDUSTRIAL HYGIENE PRACTICE IS RECOMMENDED THROUGHOUT THE HANDLING AND PROCESSING OF THIS PRODUCT, AS IS CUSTOMARY AND APPROPRIATE FOR THE OPERATION BEING PERFORMED.

TRANSPORTATION REGULATORY REQUIREMENTS

DOT PROPER SHIPPING NAME:

NOT REGULATED BY THE DOT.

OTHER REGULATORY CONTROLS

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THIS PRODUCT IS LISTED IN THE TSCA INVENTORY.

SARA HAZARD CLASS:

ACUTE: NO CHRONIC: NO FIRE HAZARD: NO PRESSURE: NO REACTIVITY: NO