

ENSINGER INC.

365 MEADOWLANDS BLVD
 WASHINGTON, PA 15301
 PHONE 724-746-6050

1 MAIN STREET
 GRENLOCH, NJ 08032
 856-227-0500

TECAPRO™ MT MATERIAL SAFETY DATA SHEET

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SECTION I - Product Identification

Product Identifier: Tecapro™ MT – all colors
Manufacturer: Ensinger Inc.
 365 Meadowlands Blvd
 Washington, PA 15301
Emergency Phone Number: 724-746-6050
Date Prepared: 09/02/2008
Prepared by: Kenneth S. Grier
Product Description: Polypropylene homopolymer

SECTION II - Components

Ingredient	CAS Number	Exposure Limits	Range
1-Propene, homopolymer	9003-07-0 >99.0	Particulates not otherwise classified (PNOC) 10 (mg/m3) TWA-ACGIH (INHALABLE PARTICULATE) 3 (mg/m3) TWA-ACGIH (RESPIRABLE PARTICULATE) Particulates not otherwise regulated (PNOR) 15 (mg/m3) TWA-OSHA (TOTAL DUST) 5 (mg/m3) TWA-OSHA (RESPIRABLE FRACTION)	95 – 99%
Modifiers and Pigments			1 - 5%

This is a polymeric material. All constituents are wetted by the polymer system, and therefore, present no likelihood of exposure under normal conditions of processing and handling. This product is not hazardous as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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SECTION III – Hazards Identification

Potential Health Effects	
Primary Routs of Exposure	Eye Skin Inhalation Ingestion
Effects of Overexposure:	
Acute:	
Eyes:	Product may contain residual amounts of dust or small particulates which may cause eye irritation or abrasion experienced as mild discomfort and slight excess redness of the eye
Skin:	Product may contain residual amounts of dust or small particulates that may cause skin irritation or abrasion experienced as local redness with possible mild discomfort
Inhalation:	Dust may cause irritation of the nose and throat. Overexposure to high concentrations of dust may cause respiratory irritation, experienced as coughing and difficulty breathing. Product not volatile at ambient temperatures. Vapors or mist in high concentrations, as generated from spraying or heating in an enclosed space, may cause minimal irritation
Ingestion:	May cause abdominal discomfort, nausea, and diarrhea
Sensitization Properties:	Unknown
Chronic:	Prolonged or repeated inhalation of dust or particulates may impair lung function or cause lung damage.
Medical Conditions Aggravated by exposure:	There is no evidence that this product aggravates an existing medical condition.

Hazardous Material Information System (United States)		National Fire Protection Association NFPA (United States)	
Health	(0)	Health	0
Fire	(1)	Flammability	1
Reactivity	(0)	Reactivity	0
Personal protection	()	Personal Danger	

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SECTION IV – First Aid Measures

Eyes:	Flush eyes with plenty of water for several minutes. Remove larger particles from the eye as one would any foreign object. Get medical attention if eye irritation persists or particulates are difficult to remove from the eye.
Skin:	Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.
Inhalation:	If irritation, headache, or drowsiness occurs, remove to fresh air.
Ingestion	None considered necessary.

SECTION V – Fire Fighting Measures

Ignition Temperature - AIT (degrees C):	570 (1058°F)
Flash Point (degrees C):	>343 (>650°F)
Flammable Limits % (Lower-Upper):	Not determined.
Unusual or Explosive Hazards	Hazardous melting and dripping may occur at elevated temperatures. May burn at or above flash point, and airborne dust may explode if ignited. See National Fire Protection Association Bulletin 654, "Dust Explosion Prevention, Plastics Industry 1975".
Special Protective Equipment for Firefighters:	No special equipment or procedures required
Recommended Fire Extinguishing Agents And Special Procedures:	Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

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SECTION VI – Accidental Release Measures

Procedures in Case of Accidental Release, Breakage or Leakage:

Avoid the generation of dust clouds. Place in appropriate containers for disposal or recycle. Avoid breathing dust. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Otherwise, wear respiratory protection and other personal protective equipment as appropriate for the potential exposure hazard. Wear gloves, goggles, and protective clothing to avoid contact with eyes, skin, or clothing. Use vacuuming or sweeping compound for clean up. Do not dry sweep or use methods that increase dusting. Prevent entry into sewers and waterways. If spilled when molten, allow to solidify. Sweep up released material. Clean up dust or fines with a special industrial vacuum cleaner.

SECTION VII – Handling and Storage

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. Practice good housekeeping and clean up spills immediately, as this product can present a serious slipping hazard. The handling of this product during loading, unloading, and fabrication may generate nuisance dusts. Take necessary precautions to prevent exposure to these dusts. When unloading bulk vehicles, do not use metal sampling devices, such as a grain thief, due to the risk of static shock and potential ignition hazards. Pneumatic handling systems, augers, and other unloading devices should be free of contaminants.

SECTION VIII – Exposure Controls & Personal Protection

Personal Protection:

Eye/Face: Wear safety glasses with side shields or chemical goggles. In addition, use full face shield when cleaning processing fume condensates from hoods, ducts and other surfaces.

Skin: When handling pellets avoid prolonged or repeated contact with skin. When melt processing product wear long pants, long sleeves, well insulated gloves and face shield when applicable. Use appropriate protective clothing, including chemical resistant gloves, to prevent any contact with processing fume condensates.

Respiratory: When processing fumes are not adequately controlled, use respirator approved for protection from organic vapors and acid gases.

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SECTION IX – Physical and Chemical Properties

Appearance:	Extruded plate or rod white, natural, black, and other colors
Odor:	Odorless
Specific Gravity (water=1):	0.900 - 0.91
Boiling Point (degrees C):	Not applicable
Melting/Freezing Point (degrees C):	Softening Point: 160-164 (320-327°F)
pH:	Not applicable
Vapor Pressure:	Not applicable
VOC Content:	Non volatile
Vapor Density (Air=1):	Not applicable
Other:	Not applicable
Solubility in Water (%):	Insoluble
Viscosity	Not applicable
Comments	None

SECTION X Stability and Reactivity

This Material Reacts Violently With:	Air	Water	Heat	Strong Oxidizers	Others	None of these
						X
Comments:	This product is softened by oxidizing agents (i.e. nitric acid, free halogens), hydrocarbons (i.e. benzene, gasoline, petroleum ether), and by chlorinated hydrocarbons.					
Products Evolved from Combustion	At processing temperatures some degree of thermal degradation will occur. A variety of decomposition products may occur including, simple hydrocarbons, to toxic and irritating gases such as carbon, carbon monoxide, carbon dioxide, acids, ketones, and aldehydes.					
Hazardous Polymerization	Does not occur					

SECTION XI Toxicological Information**TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**

Oral:

LD50 > 5.00 g/kg (rat) practically non-toxic

Dermal:

LD50 > 2.00 g/kg (rabbit) practically non-toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Product may contain dust or particulates that may cause eye irritation or abrasion.

Other:

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Section XII Ecological Information

Aquatic Toxicity:	Not determined
Mobility:	Not determined
Persistence and Biodegradability:	Not determined
Potential to Bioaccumulate:	Not determined.
Remarks:	None

Section XIII Disposal Considerations

Waste Disposal Methods: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous

Remarks: None

Section XIV Transportation Information

DOT: Proper Shipping Name: Hazard Class: Identification Number Packing Group Label Required	Not regulated Not regulated Not regulated Not regulated Not regulated
IMDG Proper Shipping Name	Not regulated
ICAO Proper Shipping Name	Not regulated
TDG Proper Shipping Name: Hazard Class Identification Number: Label Required:	Not regulated Not regulated Not regulated Not regulated

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Section XV Regulatory

FEDERAL REGULATIONS					
SARA Title III:					
Section 302/304 Extremely Hazardous Substances					
Chemical Name	CAS Number	Range in %	TPQ	RQ	
None					
Section 311 Hazardous Categorization					
Acute	Chronic	Fire	Pressure	Reactive	N/A
					X
Section 313 Toxic Chemical					
Chemical Name		CAS #		Concentration	
None					
CERCLA 102(a)/DOT Hazardous Substances:					
Chemical Name	CAS Number	Range in %	RQ		
None					
States Right-to-Know Regulations					
Chemical Name			State Right to Know		
None					
California State Prop 65					
The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.					
Chemical Name			CAS #		
None					
INTERNATIONAL REGULATIONS					
TSCA Inventory Status:		This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.			
WHMIS Classification		Not regulated			
Canadian Inventory Status:		This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).			
EINECS Inventory Status:		This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).			
Australian Inventory Status:		This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical substances (AICS).			
Japan Inventory Status		This product, or its components, are listed on or are exempt from the			

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	Japanese Ministry of International Trade and Industry (MITI) inventory.
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Section VXi Disclaimer

The information contained herein relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable. However no representation warranty or guarantee is made as to its accuracy and reliability of completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information pertaining to his own particular use.

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