

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Expando PT (Standard/ Manufacturer:

Frayless/Tightweave) Federal Mogul Corporation

26555 Northwestern Highway

Southfield, MI 48033

MSDS# BH-006 24hr Emerg # (Infotrac): 1-800-535-5053

International: 001-352-323-3500 Non-Emerg #: 248-354-9844

SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Expando PT is a tough, lightweight oversleeve designed to provide mechanical protection to cable assemblies, wire harnesses, and hoses. Made of braided polyester monofilaments, it increases cut-through strength and abrasion resistance of electrical and thermal insulation surfaces.

Although several of the ingredients used to formulate this product may be hazardous in the raw state, the manufacturing process results in a solid, infusible form, binding and otherwise, rendering the product inert. The constituents identified below may be present in quantities greater than 1% (0.1% for carcinogens) that may be release from the product by overheating, burning, machining, abrasion, or riveting.

This information provides the minimum criteria for safe usage and handling of this product. Companies using this product should develop their own occupational health program to protect employees from injury or adverse health effects.

Ingredient	CAS No.	% Weight	OSHA PEL	ACGIH TLV
Polyester Monofilament	None Established	<100	None Established	None Established
Inorganic Pigments	None Established	<0.5	None Established	None Established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Shipped material is not considered hazardous, but operations (e.g., overheating, burning, machining, abrading, or riveting) that can create airborne dust should be avoided.

POTENTIAL HEALTH EFFECTS

Inhalation: Inhalation of dust and vapor may cause moderate respiratory irritation.

Skin: Molten material can cause thermal burns.

Eye: Solid or dust particle may cause irritation or corneal injury due to mechanical action.

Ingestion: Not a probable route of entry.

Revised: 04/27/2005 Page 1 of 5

POTENTIAL HEALTH EFFECTS (continued)

Carcinogenicity:

COMPONENT NTP IARC OSHA

Polyester Monofilament

No No No

Inorganic Pigments

No No No

Symptoms and Effects of Exposure to Selected Individual Components

Exposure Hazards: None known

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Seek medical attention.

Eye Contact: Rinse thoroughly with ample amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Wash thoroughly with soap and water. If molten material falls on skin, do not attempt to

remove material; cool immediately with water. Seek medical attention.

Ingestion: If significant quantities have been consumed, give two glasses of water to induce

vomiting. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

This product is inherently flame resistant, but may ignite at temperature exceeding 600°C in an oxygenenriched atmosphere.

Flashpoint: N/A LEL: N/A UEL: N/A Autoignition Temperature: N/A

Extinguishing Media: Use media suitable for surrounding fire.

Unusual Fire and Explosion Hazards: None

Special Fire Fighting Procedure: Wear self-contained breathing apparatus when extinguishing.

Hazardous decomposition products are generated in fire conditions.

Revised: 04/27/2005 Page 2 of 5

SECTION 6: ACCIDENTAL RELEASE MEASURES

Scrap monofilament may present a slipping hazard. Sweep up and dispose of according to all federal and state disposal procedures. If dust is generated during machining, abrading or riveting, remove dust by vacuuming or wet-mopping. Vacuums should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 7: HANDLING AND STORAGE

Store in a cool, dry place. Do not heat to over 200°C for prolonged periods of time. Avoid breathing fumes at elevated temperatures. Shipping and storage may accumulate dust in shipping containers. Place in an airtight polyethylene bag or remove dust by vacuuming/wet-mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Any operation which may produce dust, including machining, grinding, riveting, or

abrading this product, should be adequately exhausted to prevent inhalation of dust.

Respiratory Protection: Use a NIOSH-approved respirator if there is a potential for exposure to dust, vapor,

or fume exceeding PELs or TLVs. (See 29 CFR 1910.134, OSHA Respiratory

Protection Standard).

Skin Protection: If skin irritation occurs, gloves and other protective garments may be worn. Wear

cloth gloves when handling monofilaments to prevent cuts.

Eyes: Wear safety glasses or goggles, as necessary, if dust exposure is possible.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:N/AVapor Pressure:N/AMelting Point: 250° CVapor Density (air = 1):N/ApH:N/A% Volatile:N/ASpecific Gravity:1.38 g/ccEvaporation Rate:N/A

Water Solubility: Insoluble Form, Color and Odor: Solid, various and odorless

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions.

Incompatibility Strong bases

(Materials/Conditions to Avoid):

Hazardous Polymerization: Will not polymerize

Decomposition Products: Avoid exposing to temperatures greater than 300°C for prolonged periods

of time. At this temperature, thermal decomposition starts to occur producing such by-products as carbon monoxide and small traces of

esters, alcohols, acids and acetaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: Refer to Section 3

Revised: 04/27/2005 Page 3 of 5

Skin: Refer to Section 3

Eye: Refer to Section 3

Ingestion: Refer to Section 3

Acute: None known

Chronic: None known

SECTION 12: ECOLOGICAL INFORMATION

N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Federal and state law regulates disposal of scrap material or dust as solid waste; disposal must be in accordance with federal and state laws. Contact local regulatory agencies for guidance.

SECTION 14: TRANSPORTATION INFORMATION

Proper Shipping Name: Not regulated by these modes of transportation

Hazard Class:NoneIdentification Number:NonePacking Group:N/AShipping Label:NoneAdditional Marking Requirement:None

SECTION 15: REGULATORY INFORMATION

U.S. TSCA: All chemicals used in the manufacture of this product are listed on the

U.S. Toxic Substances Control Act (TSCA) Inventory

California Proposition 65: This product does not contain ingredients known to the State of

California to cause cancer, birth defects or other reproductive effects.

SARA Title III – Section 313

Supplier Notification:

This product does not contain chemicals subject to SARA Title III/CERCLA "reportable quantities" (RQs) and/or "threshold planning quantities" (TPQs) and/or are classified as "Toxic Chemicals" under

the Emergency Planning and Community Right-To-Know Act

(EPCRA) of 1986 and 40 CFR 372.

RCRA Hazardous Waste Code: Not Available

CERCLA Hazardous Substances: Not Available

OSHA: Not Available

WHMIS Classification: Not Available

SECTION 16: OTHER INFORMATION

Abbreviations:

Revised: 04/27/2005 Page 4 of 5

CAS No.: Chemical Abstract Services Number

OSHA PEL: U.S. Occupational Safety and Health Administration Permissible Exposure Limit

ACGIH TLV: American Conference of Governmental Industrial Hygienists Threshold Limit Value (2004)

N/A: Not Applicable

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

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Revised: 04/27/2005 Page 5 of 5