



## ENDOT INDUSTRIES, INC.

### MATERIAL SAFETY DATA SHEET

Product Name: Endot PE 3408/ PE 4710 Gas Pipe and Tubing

MSDS#: 00011

Effective Date: 7-21-2008

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Endot Industries, Inc. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; and 3) Request its customers to notify their employees, customers, and other users of the product of this information.

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

##### Identification

**Product Name:** Product Name: Endot PE 3408/ PE 4710 Gas Pipe and Tubing

**Chemical Name:** Ethylene/hexane-1 copolymer

**Chemical Family:** Natural Thermoplastic Polyethylene Compounds

**Formula:** Not Applicable

**Synonym:** None

##### Company Identification

Endot Industries, Inc. (Corporate Headquarters)  
60 Green Pond Road  
Rockaway, NJ 07866  
1-800-443-6368  
1-973-625-8500

Tennessee Operations  
400 Bohannon Avenue  
Greeneville, TN 37745

Oklahoma Operations  
Mid-America Industrial Park  
2615 Ok Highway 69A  
Pryor Creek, OK 74361



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### **2. COMPONENT**

<b>Component</b>	<b>CAS #</b>	<b>Amount</b>
Ethylene/hexane-1 copolymer	25213-02-9	> 99%

### **3. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

**Appearance** Pipe or tubing 1/2" through 12" inside diameter black with yellow stripes in color.

**Physical State** Continuous length coils of 100 feet or greater or 20 ft. or 40 ft. lengths.

**Odor :** Odorless

**Hazards of product:** None

#### **Potential Health Effects**

#### **OSHA Hazard Communication Standard**

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **Potential Health Effects**

**Eye Contact:** Solid or dust may cause irritation or corneal injury due to mechanical action. Vapor may cause eye irritation experienced as mild discomfort and redness.

**Skin Contact:** Prolonged contact is essentially nonirritating to skin. Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.

**Skin Absorption:** No adverse effects anticipated by skin absorption.

**Inhalation:** No adverse effects are anticipated from single exposure to dust. Vapors/fumes released during thermal processing may cause respiratory irritation.

**Ingestion:** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.



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### **Chronic, Prolonged or Repeated Overexposure**

**Effects of Repeated Overexposure** No adverse effects anticipated from available information.

**Other Effects of Overexposure** None currently known.

### **Medical Conditions Aggravated by Exposure**

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure, is unlikely to aggravate existing medical conditions.

### **Potential Environmental Effects**

See Section 12 for Ecological Information.

## **4 FIRST AID PROCEDURES**

**Eye Contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Skin Contact:** If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from skin. Removal could result in severe tissue damage. Seek medical attention immediately.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Ingestion:** If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

**Notes to Physician:** If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## **5. FIRE FIGHTING MEASURES**

**Extinguishing Media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

**Unusual Fire and Explosion Hazards:** Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Dense smoke is emitted when burned without sufficient oxygen.

**Hazardous Combustion Products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.



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### **6. ACCIDENTAL RELEASE MEASURES**

**Steps to be Taken if Material is Released or Spilled:** Contain spilled material if possible. Sweep up. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

**Personal Precautions:** Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental Precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

### **7. HANDLING AND STORAGE**

#### **General Handling**

Store in a manner to prevent coils of pipe or tubing from falling or toppling over. Do not stack coils of pipe higher than six (6) feet high loose and eight (8) feet high when palletized and stretch wrapped. No smoking, open flames or sources of ignition in handling and storage area.

#### **Ventilation**

No special precautions are needed for coiled pipe and tubing.

#### **Storage**

Store in accordance with good manufacturing practices.

### **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

#### **Exposure Limits**

None established

#### **Personal Protection**

**Eye/Face Protection:** Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

**Skin Protection:** No precautions other than clean body-covering clothing should be needed.

**Hand protection:** Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection, when needed. **Respiratory Protection:** Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present. The following should be effective types of air-purifying respirators:

**Ingestion:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

ventilation may be necessary for some operations., particularly in confined areas if extensive cutting of pipe or tubing is to take place.



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### **Engineering Controls**

**Ventilation:** Good general ventilation should be sufficient for most conditions. Local exhaust

**Other Protective Equipment:** None required

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Pipe or tubing in coils or 20 ft. or 40 ft. lengths

**Appearance:** Black, Lavender, Green or Blue pipe or tubing in coils or in 20 ft. or 40 ft. lengths.

**pH:** *Not applicable.*

**Solubility in Water (by weight):** *Negligible*

**Odor:** Odorless

**Boiling Point (760 mmHg):** *Not applicable.*

**Freezing Point:** *Not applicable*

**Specific Gravity (H<sub>2</sub>O = 1):** – 0.85 – 0.97

**Vapor Pressure at 20<sup>0</sup>C:** *Not applicable.*

**Vapor Density (air = 1):** *Not applicable*

## **10. STABILITY AND REACTIVITY**

### **Stability/Instability**

Stable.

**Conditions to Avoid:** Exposure to elevated temperatures can cause product to decompose.

**Incompatible Materials:** None known.

### **Hazardous Polymerization**

Will not occur.

### **Thermal Decomposition**

Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Fumes can be irritating. Decomposition products can include and are not limited to: Aldehydes. Alcohols. Organic acids. Decomposition products can include trace amounts of: Hydrocarbons.

**Inhibitors/Stabilizers** Not Applicable.



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### **11. TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity Ingestion**

Estimated LD50, Rat > 5,000 mg/kg

#### **Skin Absorption**

Estimated LD50, Rabbit > 2,000 mg/kg

#### **Repeated Dose Toxicity**

Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency

### **12. ECOLOGICAL INFORMATION**

#### **CHEMICAL FATE**

##### **Movement & Partitioning**

No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.

##### **Persistence and Degradability**

This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

#### **ECOTOXICITY**

Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

### **13. DISPOSAL CONSIDERATIONS**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. ENDOT HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device. Landfill.



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### **14. TRANSPORTATION INFORMATION**

**DOT Non-Bulk**

NOT REGULATED

**DOT Bulk**

NOT REGULATED

**IMDG**

NOT REGULATED

**ICAO/IATA**

NOT REGULATED

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

### **15. REGULATORY INFORMATION**

**OSHA Hazard Communication Standard**

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

<b>Immediate (Acute) Health Hazard</b>	No
<b>Delayed (Chronic) Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Reactive Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.



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**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**US. Toxic Substances Control Act**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

**CEPA - Domestic Substances List (DSL)**

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

**16. OTHER INFORMATION**

**Recommended Uses and Restrictions:** These products are NSF Certified for use in the distribution of potable water. These products are for use in cold water systems only. Before using any of these products in systems with temperatures greater than 73 Deg. F consult with Endot Industries, Inc. Customer Service for further application information.

**17. REVISION**

Version: I.

Revision: 7-21-2008