



**Material Safety Data Sheet**  
**Polyethylene Pipe**  
**All Grades – All Colors – All Materials**  
MSDS #: PLP 001

**Section 1 – Product and Company identification**

**Product Name** Pipeline Plastics Polyethylene Pipe  
**MSDS #** PLP 001  
**Product Description** Polyethylene pipe (various colors, and with and without external color stripes)  
**Product Use** Component for conveying gases, liquids and other fluid media  
**Company Identification** Pipeline Plastics, LLC  
1453 FM 2264, PO Box 1988  
Decatur, TX 76234  
**24-Hour Emergency Telephone Number** CHEMTREC – 1-800-424-9300

Product Information: 940-627-9100  
Technical Information: 940-627-9100  
General Information: www.pipe.us

**Section 2 – Composition / Information on Ingredients**

INGREDIENT NAME	CAS NUMBER	AMOUNT
Polyethylene	9002-88-4	> 96% by weight
Polyethylene Hexene Copolymer	25213-02-9	> 96% by weight
Polyethylene Butene Copolymer	25807-34-7	> 96% by weight
May include carbon black	1333-86-4	0 - 4% by weight
May include cadmium sulphide pigment	1306-23-6	< 0.1% by weight
May include lead chromate pigment	1344-37-2	0 - 1% by weight
May include flux calcined diatomaceous earth	68855-54-9	<1% by weight
May include crystalline silica (cristobalite)	14464-46-1	<1% by weight

**Section 3 – Hazards Identification**

**Emergency Overview**

Physical Appearance:

- o Black polyethylene pipe
- o Black polyethylene pipe with external longitudinal contrasting color stripes
- o Polyethylene pipe is supplied in straight lengths or coils
- o This product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Hazards of Product**

- o Injury or death can result from product falling from a height or unexpected movement during storage, unloading or handling. Call 940-627-9100 for unloading and handling instructions.
- o Product surface can be slippery especially if there is water, snow or ice on the surface. Do not walk on product.
- o May contain an ingredient that can cause cancer. See Section 11. Not expected to be harmful if all recommendations in this MSDS are followed. See Section 7 and Section 8.
- o EYE: Not expected to cause prolonged or significant eye irritation. If this material is heated, thermal burns may result from eye contact.
- o SKIN: Contact with the skin is not expected to cause prolonged or significant irritation or cause an allergic skin response. If this material is heated, thermal burns may result from skin contact.
- o INHALATION: Not expected to be harmful if inhaled. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the upper respiratory tract.
- o INGESTION: Not expected to be harmful if swallowed.



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**Section 4 – First Aid Measures**

- Eye contact:** Hot material: Flush eyes with plenty of cold water for at least 15 minutes. Do not remove contact lenses if worn. Seek medical assistance for mechanical removal of this material from the eye. The use of flush fluid, other than water, is not recommended.  
Cold material: Flush eyes with plenty of cold water. Get medical attention if irritation occurs.
- Skin contact:** Hot material: If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention.  
Cold material: Wash with soap and water.
- Inhalation:** If affected by fumes from heated material, remove from source of exposure and move the affected person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

**Section 5 – Fire Fighting Measures**

- Flammability of the Product:** May be combustible at high temperatures.
- NFPA** Health: 0 Flammability: 1 Instability: 0
- HMS** Health: 0 Flammability: 1 Instability: 0
- Auto-ignition temperature:** Greater than 343°C (649°F)
- Flash point:** Above 300°C (572°F) decomposition occurs and flash of fumes may occur.
- Products of combustion:** Products of combustion are carbon oxides (CO, CO<sub>2</sub>). May also contain low levels of aldehydes, ketones, organic acids or hydrocarbons.
- Unusual fire/explosion hazards:** High dust concentrations have a potential for combustion or explosion. This material is not explosive as defined by established regulatory criteria.
- Fire-fighting media and instructions:** In case of fire, use water spray (fog), foam or dry chemicals. Do not use water jet.

**Section 6 – Accidental Release Measures**

**Protective measures:** Eliminate sources of ignition in vicinity of spilled material.

**Spill management:** If heated material is spilled, allow it to cool before proceeding with disposal methods. Shavings, chips or segments from cutting and cooled, spilled heated material may cause a slipping hazard. Isolate and contain to prevent entry into sewers and waterways. Sweep or vacuum shavings, chips, segments and cooled heated material and place in appropriate containers for disposal. Recycle where possible. Use appropriate safety equipment.

**Reporting:** USA regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

**Section 7 – Handling and Storage**

**Precautionary measures:** Avoid heated material contact with eyes, skin and clothing. Avoid breathing vapor or fumes from heated material.

**Unusual handling hazards:** Potentially toxic / irritating fumes may evolve from heated material. At high temperatures, above 177°C (350°F), polyethylene can release vapors and gases that are irritating to mucous membranes of the eyes, mouth, throat and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, NTP, IARC (2A) and OSHA have listed formaldehyde as a probable human carcinogen. Following all recommendations within this MSDS should minimize exposure to thermal processing emissions.

**Section 8 – Exposure Controls and Personal Protection**

<b>Exposure limits:</b>	Component	Exposure Limits	Form
	Particulates (Insoluble) Not Otherwise Specified (PNOS)	10 mg/m <sup>3</sup> TWA8 ACGIH	Inhalable fraction Particulate matter containing no asbestos and crystalline silica <1%
		3 mg/m <sup>3</sup> TWA8 ACGIH	Respirable fraction Particulate matter containing no asbestos and crystalline silica <1%
		5 mg/m <sup>3</sup> TWA8 OSHA	Respirable fraction
		15 mg/m <sup>3</sup> TWA8 OSHA	Total dust
<b>Personal protection:</b>	Respiratory Protection:	Use NIOSH-Approved respirator if unable to control airborne dust, fumes and vapor.	
	Ventilation:	Local exhaust ventilation is recommended for control of airborne dust, fumes and vapor, especially in confined areas.	
	Other Protective Equipment:	Wear gloves and suitable eye protection.	
<b>Engineering controls:</b>	If dust is generated, provide local exhaust ventilation to keep exposure to airborne contaminants below exposure limits.		

### **Section 9 – Physical and Chemical Properties**

<b>Physical state and appearance:</b>	Polyethylene pipe is supplied in straight lengths or coils as black polyethylene pipe, or black polyethylene pipe with external longitudinal contrasting color stripes.
<b>Odor:</b>	Negligible
<b>pH:</b>	NA
<b>Vapor pressure:</b>	NA
<b>Vapor density (air = 1)</b>	NA
<b>Boiling point:</b>	NA
<b>Solubility (in water):</b>	Insoluble in water
<b>Melting point:</b>	100 - 135°C (212 - 275°F)
<b>Specific gravity:</b>	0.93 – 0.99
<b>Density:</b>	0.93 – 0.99 g/cm <sup>3</sup>

### **Section 10 – Stability and Reactivity**

<b>Chemical stability:</b>	This material is considered stable under ambient temperature and pressure and normally anticipated storage and handling conditions.
<b>Conditions to avoid:</b>	Avoid heating above recommended processing temperature.
<b>Incompatibility with other materials:</b>	None
<b>Hazardous decomposition products:</b>	Carbon oxides
<b>Hazardous polymerization:</b>	Hazardous polymerization will not occur

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## **Section 11 – Toxicological Information**

### **Immediate Health Effects:**

<b>Acute oral toxicity:</b>	LD50 / Not known
<b>Acute dermal toxicity:</b>	LD50 / Not known
<b>Acute inhalation toxicity:</b>	LD50 / Not known
<b>Eye irritation:</b>	Not expected to be irritating to the eyes.
<b>Skin irritation:</b>	Not expected to be irritating to the skin.
<b>Sensitization:</b>	Dermal – not a sensitizer / human
<b>Additional toxicological information:</b>	<ul style="list-style-type: none"><li>○ This product contains POLYMERIZED OLEFINS. During thermal processing (&gt;177°C; &gt;350°F) polyethylene can release vapors and gases (aldehydes, ketones and organic acids) that are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a probable human carcinogen by NTP, IARC (2A) and OSHA based on animal data and limited epidemiological evidence.</li><li>○ Pigments containing carbon black, lead chromate, nickel, antimony or titanium compounds may have been incorporated into this product. The International Agency for Research on Cancer (IARC) has classified carbon black as a Group B carcinogen (possibly carcinogenic to humans) based on sufficient evidence in animals and inadequate evidence in humans. However, the pigments in this product are bound in a polymer matrix that severely limits its extractability, bioavailability and toxicity. The lead chromate pigment is also silica-encapsulated as well as bound in a polymer matrix. None of these pigments is likely to cause adverse health effects under recommended conditions of use.</li><li>○ Product marked “NSF-61” is safe for use with potable water (drinking water for human consumption).</li></ul>

## **Section 12 – Ecological Information**

<b>Ecotoxicity:</b>	This material is not expected to be harmful to aquatic organisms.
<b>Environmental fate:</b>	This material is not expected to be readily biodegradable.
<b>Mobility:</b>	This product has not been found to migrate through soils.
<b>Persistence and degradability:</b>	This product does not readily degrade. Under normal oxidation conditions, >99% of polyethylene will remain intact after exposure to microbial actions. Product will slowly change (embrittle) in the presence of sunlight, but will not fully break down. Product buried in landfill has been found to be stable over time. No toxic degradation products are known to be produced.
<b>Other ecological information:</b>	Wildlife may ingest waste cuttings, shavings, segments or chips. Although not toxic, such materials may physically block the digestive system, causing starvation or death.





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**Regulatory Lists (continued):**

02 = LA RTK	19 = FDA 180	36 = RCRA Waste U-List
03 = MA RTK	20 = FDA 181	37 = SARA Section 311/312
04 = MN Hazardous Substance	21 = FDA 182	38 = SARA Section 313
05 = NJ RTK	22 = FDA 184	39 = TSCA 12 (b)
06 = PA RTK	23 = FDA 186	40 = TSCA Section 4
07 = CAA Section 112 HAPs	24 = FDA 189	41 = TSCA Section 5(a)
08 = CWA Section 307	25 = IARC Group 1	42 = TSCA Section 8(a) CAIR
09 = CWA Section 311	26 = IARC Group 2A	43 = TSCA Section 8(a) PAIR
10 = DOT Marine Pollutant	27 = IARC Group 2B	44 = TSCA Section 8(d)
11 = FDA 172	28 = IARC Group 3	45 = WHIMS - IDL
12 = FDA 173	29 = IARC Group 4	46 = Germany D TAL
13 = FDA 174	30 = NTP Carcinogen	47 = Germany WKG
14 = FDA 175	31 = OSHA Carcinogen	48 = DEA List 1
15 = FDA 176	32 = OSHA Highly Hazardous	49 = DEA List 2
16 = FDA 177	33 = RCRA Waste Appendix VIII	
17 = FDA 178	34 = RCRA Waste D-List	

**The following components of this material are found on the regulatory lists indicated:**

Polyethylene	4
May include: carbon black	1, 3, 4, 5, 6, 27, 45
May include: lead chromate pigment	1, 3, 4, 5, 6, 25, 26, 30, 34, 38, 39, 45, 46

**CERCLA reportable quantities (RQ) / SARA 302 threshold planning quantities (TPQ):**

Component	Component RQ	Component TPQ	Product RQ
May include: lead chromate pigment	10 lbs	None	1000 lbs

**WHMIS Classification:**

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

**Section 16 – Other Information**

**Notice to reader:**

NOTICE: This Material Safety Data Sheet is based on data considered to be accurate at the time of its preparation, but despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. The information on this MSDS was obtained from sources that we believe are reliable. However, the information is provided without warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal are beyond our control and may be beyond our knowledge. For this and other reasons, Pipeline Plastics does not assume responsibility and expressly disclaims liability for loss, damage, injury or expense arising out of or in any way connected with handling, storage, use or disposal of this product, or resulting from abnormal use, or resulting from any failure to follow appropriate practices, or from hazards inherent in the nature of the product. If the product is used as a component in another product or system, this MSDS information may not be applicable.

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