

# SAFETY DATA SHEET

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Customer Service  
800-847-7661

**Product Name:** High Density Polyethylene (HDPE)

**Issue Date:** 01/21/2014

Dura-Line encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. Product and Company Identification

### COMPANY IDENTIFICATION

Dura-Line Corporation  
11400 Parkside Dr., Suite 300  
Knoxville, TN 37934  
United States

Customer Information Number:

800-847-7661  
info@duraline.com

### EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact:

800-847-7661

### Product Name

**Trade Name:** PolyPipe<sup>®</sup> EHMW, PolyPlus<sup>™</sup>, PE100, PolyPipe EHMW PLUS, PE100, PolyPipe EHMW PLUS, PolyPipe PW, GDB50 Gas Pipe, GB50 Gas Pipe

**Classification:**

ASTM D3350 PE445574C, D or E (4710) PE445576C, E or E (PE100)

## 2. Hazards Identification

### Emergency Overview

**Physical State:** Solid

**Odor:** Odorless

### Hazards of product:

**2a** Hazardous Components:  
Carbon black- CAS # 1333-86-4

**2b** Exposure Limits:  
OSHA permissible Exposure Limit:  
5 mg/m<sup>3</sup> respirable dust  
15 mg/m<sup>3</sup> total dust

ACGIH limits exposure to 10mg/m<sup>3</sup>total dust.

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## 3. Composition Information

### POTENTIAL HEALTH EFFECTS:

HDPE contains Carbon Black - hazardous products of decomposition can include carbon monoxide, carbon dioxide, and oxides of sulfur. May cause reversible mechanical irritation to the eyes and respiratory tract especially at concentrations above the occupational exposure limit. Avoid breathing dust or fumes that may be generated during cutting or fusing of pipe.

### Overexposure:

Repeated and prolonged exposure to dust or fumes that may be generated during cutting and fusing of pipe may cause delayed effects involving blood, gastrointestinal, nervous and reproductive systems. See Section 4 for Emergency First Aid Procedures.

## 4. First-aid measures

- 4a **Inhalation:** The material is not expected to present an acute inhalation hazard. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.
- 4b **Eyes:** Immediately flush polymer fines from eyes with water for several minutes; seek medical attention.
- 4c **Skin:** Cool skin rapidly if contacted with molten polymer without attempting to remove molten material. Obtain medical attention for thermal burns.
- 4d **Ingestion:** Few or no adverse health effects from ingestion. Seek medical attention if pain develops.

## 5. Fire Fighting Measures

- 5a **Flash Point:** >650°F (ASTM E136)
- 5b **Upper Explosive Limit:** Not determined
- 5c **Lower Explosive Limit:** Not determined
- 5d **Auto ignition temperature** >650°F (estimated)
- 5e **Extinguishing Media**  
Dry chemical, water fog, foam, carbon dioxide
- 5f **Special fire & explosion hazards**  
Dense smoke emitted when burned without sufficient oxygen. Possible dust explosion if fines accumulate. Wear standard firefighting equipment.
- 5g **NFPA Ratings** Health 0; Flammability 1; Reactivity 0

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## 6. Accidental Release Measures

- 6a **Environmental Precautions:** Prevent discharges of spilled material with mixing in soil and prevent runoff to surface waters. Avoid creating dust and prevent wind dispersion.
- 6b **Land Spill:** Spilled material should be swept up and discarded. Comply with applicable federal, state and local regulations.
- 6c **Water Spill:** Advise local authorities if spilled in waterway or sewer. Skim from surface of water if possible.
- 6d **Waste Disposal:** Dispose in accordance with federal, state and local regulations.

## 7. Handling and Storage

- 7a Do not store pipe near heat, flame or strong oxidants, such as chlorates, nitrates, peroxides, etc. May react with halogens.
- 7b See section 10 below for incompatibility with other materials.
- 7c Maximum recommended storage life for yellow PE2708 GDY20 Gas Pipe or other colored products, excluding black, is four years from date of manufacture.

## 8. Exposure Controls / Personal Protection

- 8a **Cleanup Procedures:** Sweep and collect in suitable container for disposal.
- 8b **Waste Disposal Method:** This product is not considered a RCRA hazardous waste. Dispose of in accordance with local, state and federal regulations.
- 8c **Respiratory Protection:** Use NIOSH approved respirator if unable to control airborne dust, fumes or vapors.
- 8d **Protective Clothing:** Wear gloves and suitable eye protection.
- 8e **Ventilation:** Local exhaust ventilation is recommended for control of airborne dust, fumes and vapors, particularly in confined areas.

## 9. Physical and Chemical Properties

- 9a **Appearance:** ½" – 65" diameter black or colored pipe either coiled or cut to length
- 9b **Odor:** Odorless
- 9c **Boiling Point:** N/A
- 9d **Solubility:** Insoluble in water
- 9e **Evaporation:** N/A
- 9f **Density:** 0.947-0.955 g/cm<sup>3</sup>
- 9g **Vapor Pressure:** N/A
- 9h **Melting Point:** 230 – 275°F
- 9i **Vapor Density:** N/A
- 9j **Percent Volatile:** <0.03%



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## 10. Stability and Reactivity

- 10a **Stability:** Material is stable.
- 10b **Hazardous Polymerization:** Hazardous polymerization will not occur.
- 10c **Conditions to Avoid:** Avoid prolonged exposure to temperatures over 480° F (250° C). Do not heat without proper ventilation.
- 10d **Incompatibility with Other Materials:** Avoid storage or contact with strong oxidizing agents.
- 10e **Combustion Products:** Combustion products generated during processing include: carbon dioxide, carbon monoxide, water vapor and trace amounts of volatile organic compounds. Carbon monoxide is highly toxic if inhaled. Carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

## 11. Toxicological Information

### Toxicological Hazards of product:

11a Hazardous Components:  
Carbon black- CAS # 1333-86-4

11b Exposure Limits:  
OSHA permissible Exposure Limit:  
5 mg/m<sup>3</sup> respirable dust  
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ACGIH limits exposure to 10mg/mt<sup>3</sup>total dust.

### POTENTIAL TOXICOLOGICAL EFFECTS:

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### Overexposure:

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## 12. Ecological Information

*Ecotoxicological Information:* No data at this time  
*Chemical Fate Information:* No data at this time



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## 13. Disposal Considerations

Disposal should be made in accordance with federal, state, and local regulations. Bury in approved landfill, or incinerate in approved incinerator according to federal, state, and local regulations.

**RCRA:** Not a hazardous waste – Not regulated under RCRA  
**U.S. EPA Waste Number:** None – Not regulated under US EPA  
**U.S.D.O.T Number:** None – Not regulated under US DOT

## 14. Transport Information

**DOT Proper Shipping Name:** None, not restricted.  
**DOT Hazard Class or Division:** None, not restricted  
**UN/NA Number:** None, not restricted  
**IATA/ICAO:** None, not restricted

## 15. Regulatory Information

**TSCA:** All ingredients are listed in TSCA inventory.  
**CERCLA:** Not reportable.  
**SARA 302:** None of the chemicals in this material have an RQ.  
**SARA 313:** None of the chemicals in this material have an RQ.  
**SARA 311, 312 Hazard Categories:** No reportable hazard categories.  
**California Proposition 65:** Contains nothing on this list.  
**OSHA:** None of the chemicals in this product are considered highly hazardous by OSHA

## 16. Other Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

DURA-LINE urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of potential hazards, if any, of the products involved. In the interest of safety you should (1) furnish your employees, agents and contractors with this sheet, (2) furnish a copy to each of your customers for their product and (3) request your customer to inform their employees and customers as well.