Material Safety Data Sheet

PolyPipe®

SECTION 1 – IDENTIFICATION

Yellow MDPE Pipe		All Other Products	
Trade Name:	PolyPipe GDY20 PE2708 Gas Pipe	**Trade Name:**	PolyPipe® EHMW, PolyPlus™ PE100, PolyPipe EHMW PLUS, PolyPipe PW, GDB30 Gas Pipe, GB30 Gas Pipe, GDB50 Gas Pipe, GB50 Gas Pipe
Classification:		**Classification:**	
ASTM D3350	PE234373E	ASTM D3350	PE234473C, D or E (2708) PE345464C, D or E (3608) PE445574C, D or E (4710) PE445576C, E or E (PE100)
ASTM D1248 (obsolete)	Type II, Class B, Category 5, Grade P23/P24	ASTM D1248 (obsolete)	Type II, Class B, Category 5, Grade P23/P24 (2406) Type III, Class C, Category 5, Grade 34 (3408)

SECTION 2 – PHYSICAL DATA

	Yellow MDPE Pipe			All Other Products	
2a	**Appearance:**	½" – 24" diameter yellow pipe either coiled or cut to length	2a	**Appearance:**	½" – 65" diameter black or colored pipe either coiled or cut to length
2b	**Odor:**	Odorless	2b	**Odor:**	Odorless
2c	**Boiling Point:**	N/A	2c	**Boiling Point:**	N/A
2d	**Solubility:**	Insoluble in water	2d	**Solubility:**	Insoluble in water
2e	**Evaporation:**	N/A	2e	**Evaporation:**	N/A
2f	**Density:**	0.943 g/cm^3 @ 23^{0}C	2f	**Density:**	0.947 - 0.960 g/cm^3 @ 23^{0}C
2g	**Vapor Pressure:**	N/A	2g	**Vapor Pressure:**	N/A
2h	**Melting Point:**	230 – 275^{o}F	2h	**Melting Point:**	230 – 275^{o}F
2i	**Vapor Density:**	N/A	2i	**Vapor Density:**	N/A
2j	**Percent Volatile:**	Negligible	2j	**Percent Volatile:**	<0.03%

SECTION 3 – HEALTH HAZARD INFORMATION

Yellow MDPE or Colored HDPE Pipe	Black Products
3a **Hazardous Components:** Lead Chromate Pigment – CAS # 1344-37-2 Lead Chromate – CAS # 7758-97-6 Cadmium – CAS# 7440-43-9	3a **Hazardous Components:** Carbon black– CAS # 1333-86-4
3b **Exposure Limits:**	3b **Exposure Limits:**
OSHA Permissable Exposure Limit:	**OSHA Permissable Exposure Limit:**
Cadmium 5 mg/m^3 respirable dust 15 mg/m^3 total dust 5µg/m^3 cadmium	5 mg/m^3 respirable dust 15 mg/m^3 total dust
Lead and Chromium 5 mg/m^3 respirable dust 15 mg/m^3 total dust 0.5 mg/m^3 chromium 0.05 mg/m^3 lead	ACGIH limits exposure to 10mg/m^3 total dust.
PolyPipe® yellow gas products may contain either lead chromate or cadmium. Both of these products are known to be a probable human carcinogen.	Avoid breathing dust or fumes that may be generated during cutting or fusing of pipe.

3c	**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.

SECTION 4 – EMERGENCY AND FIRST AID PROCEDURES

Yellow MDPE Pipe		All Other Products	
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.	**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.	**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.	**4c**	**Skin:** Cool skin rapidly if contacted with molten polymer without attempting to remove molten material. Obtain medical attention for thermal burns.
4d	**Ingestion:** Products containing cadmium are harmful if ingested due to the toxicity of cadmium. Seek medical attention.	**4d**	**Ingestion:** Few or no adverse health effects from ingestion. Seek medical attention if pain develops.

SECTION 5 – FIRE AND EXPLOSION DATA

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

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

All Products

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.

SECTION 7 – STORAGE AND HANDLING

All Products

7a Do not store pipe near heat, flame or strong oxidants, such as chlorates, nitrates, peroxides, etc. May react with halogens.

7b See 9d 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.

SECTION 8 – PROTECTIVE MEASURES

All Products

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.

SECTION 9 – REACTIVITY

All Products

9a	**Stability:**	Material is stable.
9b	**Hazardous Polymerization:**	Hazardous polymerization will not occur.
9c	**Conditions to Avoid:**	Avoid prolonged exposure to temperatures over 480^{o}F (250^{o}C). Do not heat without proper ventilation.
9d	**Incompatibility with Other Materials:**	Avoid storage or contact with strong oxidizing agents.
9e	**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.

PolyPipe® 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.

PolyPipe®

CHEMTREC EMERGENCY NUMBER
(800) 424-9300

NOTE: Hazard data contained herein was obtained from raw material suppliers.

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