

SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT: PE Pipe & Fittings

PRODUCT USE: Hot and cold water distribution, water service, conduit, air conditioning system, compressed air and process piping

<u>MANUFACTURER/SUPPLIER:</u>	IPEX Inc. 807 Pharmacy Avenue Scarborough, Ontario Canada M1L 3K2	<u>TELEPHONE NO.:</u>	866-473-9462 (Canada) 800-463-9572 (USA)
		<u>PREPARED BY:</u>	Health, Safety and Environment

SECTION 2. HAZARDS IDENTIFICATION

This product is an article and therefore is not subject to the requirements of the federal Hazardous Products Act (HPA) and Health Canada's Hazard Products Regulations (HPR) to provide a Safety Data Sheet (SDS). This product should not present a health or safety hazard under recommended or normal use.

This product is an article and therefore is not subject to the requirements of the US Hazard Communication Standard (HCS) (29 CFR 1910.1200) to provide a Safety Data Sheet (SDS). This product should not present a health or safety hazard under recommended or normal use.

Classification GHS Not Classified
GHS labelling No Labeling Applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This article does not contain any substances required to be mentioned according to the criteria of WHMIS 2015.

SECTION 4. FIRST AID MEASURES

EYES: Wash eyes with clean low-pressure water. If irritation persists, seek medical advice.

SKIN: Wash with soap and water.

INGESTION: Adverse health effects due to ingestion are not anticipated. If gastric irritation or discomfort persist, do not induce vomiting, seek medical advice.

INHALATION: If symptoms are experienced, move victim to fresh air, if symptoms persists, obtain medical attention.

Notes to Physician: Smoke and hazardous decomposition products produced in fires involving polyethylene resins can be irritating and may cause pulmonary edema in severely exposed individuals. As this effect may be delayed in onset, a 72- hour post-expose observation is recommended. Carboxyhemoglobin levels should also be monitored to assess the degree of carbon monoxide absorption in these individuals.

**ACUTE/CHRONIC
(LONG-TERM)
SYMPTOMS
AND EFFECTS:**

Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5. FIRE-FIGHTING MEASURES

SPECIAL FIRE FIGHTING:	Fire fighters <u>must</u> wear NIOSH approved SCBA (Self-Contained Breathing Apparatus) to provide protection against combustion products. Evacuate all unprotected personnel.
EXTINGUISHING MEDIA:	Small Fire: Dry Chemical, CO ₂ , water spray. Large Fire: Use flooding quantities of water until well after fire is out .
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, carbon monoxide, aldehydes, olefinic and paraffinic compound, traces of organic acids, ketones, alcohols and small amounts of other organic vapors may be produced. (see section 10).

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	No special personal precautions required.
ENVIRONMENTAL PRECAUTIONS:	No special environmental precautions required.
MATERIALS NOT TO BE USED FOR CONTAINMENT AND CLEAN UP:	None applicable.
PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL:	Not applicable.

SECTION 7. HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT:	Keep dust off walking surfaces, it may create a slipping hazard. Keep material away from sparks, flames and other ignition sources. Do not use near welding operations, flames or hot surfaces. Prevent accumulation of dust in enclosed space. Provide adequate ventilation to remove dust, heat and other emissions.
STORAGE REQUIREMENTS:	Store product away from heat and ignition sources, combustible materials, strong oxidizing and incompatible chemicals. Avoid accumulation of dust by frequent cleaning and suitable storage areas.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EXPOSURE LIMITS:	Not required for articles.
PERSONAL PROTECTIVE EQUIPMENT TO BE USED:	
RESPIRATORY PROTECTION	No dust mask is required under normal use. Use NIOSH/MSHA approved respirator for dust where atmosphere exceeds recommended limits. Respirable dust (PNOC) ACGIH 3mg/m ³ , OSHA 5mg/m ³ .
HAND PROTECTION:	Use work gloves under normal use to avoid cuts. When handling heated materials, be sure to use heat-resistant gloves.
EYES:	Safety glasses should be worn. Non-vented chemical goggles should be worn when there is potential for exposure to vapors or combustion product.

FOOTWEAR:	Not applicable.
CLOTHING:	No special clothing is required.
OTHER:	Not applicable.
ENGINEERING CONTROLS TO BE USED:	If user operations generate dust or fumes, ventilate area to prevent accumulation. Further information can be obtained from NFPA-654. "Standard for the Prevention of Fire and Dust Explosions in Chemical, Dye, Pharmaceutical and Plastics Industries."

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
ODOUR:	Slight, sweet odour
APPEARANCE:	Blue or black
BOILING POINT:	Not applicable
MELTING POINT:	Polyethylene 96 – 134°C (205 – 273°F)
VAPOUR PRESSURE:	Not applicable
VAPOUR DENSITY:	Not applicable
SPECIFIC GRAVITY:	0.840 – 0.961
SOLUBILITY IN WATER @20°C:	Insoluble
VOLATILES, % BY VOLUME:	Not applicable
pH:	Not applicable
ODOUR THRESHOLD:	Not available
EVAPORATION RATE:	Not applicable
COEFFICIENT WATER/OIL DISTR:	Not applicable
SOFTENING POINT (Vicat):	96 – 131°C (205 – 268°F)
FLASH POINT:	Not applicable
AUTOIGNITION:	330°C to 370°C (603°F to 698°F)
RATE OF BURNING:	Not applicable
IMPACT/SHOCK SENSITIVITY:	Not applicable
STATIC DISCHARGE:	Polyethylene dust particles can explode violently above 390°C (734°F) at airborne concentrations above 20 g/m ³ (dust/cloud condition).
EXPLOSIVE LEVEL:	Lower: Not applicable

(% volume)	Upper: Not applicable
FLAMMABILITY / CLASSIFICATION:	Not classified. Polymer will burn but does not ignite readily.
LOWER FLAMMABLE LIMIT:	Not established
UPPER FLAMMABLE LIMIT:	Not established
DECOMPOSITION TEMPERATURE:	>220°C (>428°F)
VISCOSITY:	Not applicable

SECTION 10. STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY:	Stable
REACTIVITY:	Generally considered inert but decomposes with heat above 300°C (572°F).
INCOMPATIBLE WITH OTHER SUBSTANCES:	Strong oxidizing agents (perchloric acid, nitric acid, fluorine). Organic solvents (benzene, petroleum ether, gasoline, lubricating oil, chlorinated hydrocarbons and aromatic hydrocarbons may attack polyethylene layer). Strong acids (fuming sulphuric acid).
HAZARDOUS DECOMPOSITION:	Polyethylene compound may emit various oligomers, waxes and other hydrocarbons including acetaldehyde, formaldehyde, acrolein, butyraldehyde, crotonaldehyde, benzaldehyde, benzene, toluene, xylene, styrene, formic acid, acetic acid, furan, tetrahydrofuran and acetone.
HAZARDOUS REACTIONS:	No information available.

SECTION 11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECT:	
SKIN:	Solid polyethylene does not affect skin.
EYES:	Fine particles issued from mechanical action may cause mild irritation. Thermal decomposition product (fumes) may produce irritation to the eyes and cause tearing. The symptoms normally stop when exposure ceases.
INHALATION:	Polyethylene dust is considered a nuisance particle. Inhalation of vapors released at high heat exposure and fine dust particles may cause mild respiratory tract irritation but does not seem to cause any significant health effects.
INGESTION:	No known health hazard appears to be posed by ingestion of small amounts of polyethylene. A physician should be consulted if large amounts are ingested.
LONG TERM EFFECTS:	Pure polyethylene seems to be biologically inert and does not affect the body during normal exposure..
CARCINOGENICITY:	Polyethylene compound not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

SUMMARY:	Not considered to be toxic for humans or animals.
EYES EFFECTS:	Draize score: Not available
SKIN EFFECTS:	Draize score: Not available
ACUTE ORAL EFFECTS:	LD ₅₀ : Not available
ACUTE INHALATION EFFECTS:	LC ₅₀ : Not applicable
IRRITATION OF PRODUCT:	Fine particles may cause mild eye irritation.
SENSITIZATION:	Not available
SYNERGISM WITH:	Not available
REPRODUCTIVE EFFECTS:	Not a reproductive hazard
TERATOGENICITY:	Not teratogenic
MUTAGENICITY:	Not mutagenic
CARCINOGENICITY:	Polyethylene compound: not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Ecotoxicity: Not available Environmental Fate: Not available
PERSISTENCE AND DEGRADABILITY:	Not established.
BIOACCUMULATIVE POTENTIAL:	Not established.
MOBILITY IN SOIL:	No additional information available.
OTHER ADVERSE EFFECTS:	Not established.

SECTION 13. DISPOSAL CONSIDERATIONS

Reuse, recycling, storing, transportation and disposal must be in accordance with applicable federal, state/provincial and local regulations.

SECTION 14. TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION:	Canadian TDG: Not regulated USA DOT (HMT): Not regulated
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SECTION 15. REGULATORY INFORMATION

No information available.

SECTION 16. OTHER INFORMATION

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