

MATERIAL SAFETY DATA SHEET

PE/HDPE/MDPE/LDPE/LLDPE

Section 1 Product and Company Identification

Distributor:

Antek Madison Plastics Corp

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Material Identification

Product Name: PE POLYETHYLENE

Chemical Name: POLYETHYLENE – NATURAL PELLETS

EMERGENCY PHONE NUMBER: (416) 321-1170
(613) 996-6666 (CANUTEC)

CAS Number:

Product Use: Thermoplastic, for fabrication

Section 2 Composition/Information on Ingredients

The following hazardous ingredients may be present in trace amounts within Permissible

Exposure Limits:

Polyethylene # CAS 9002-88-4

In addition, certain grades may also contain one or more of the substances listed below. In all cases, concentrations are within Permissible Exposure Limits

Additives Various < 4% Weight

Section 3 Hazards Identification

Ingestion: Not a probable route if ingestion.

Skin: Molten material will cause thermal burns.

Eye: Mechanical irritation only.

Inhalation: Stock shapes are not respirable, avoid breathing dust, as fine particles can be inhaled and retained in the lungs. Although these particles contain finite amounts of volatiles, they are present in trace amounts and studies indicate there is no measurable hazard from these volatiles. Vapours and fumes from heat processing may cause irritation of the nose and throat, and in cases of overexposure can cause headaches and nausea. If affected, remove to fresh air and refer to a physician for treatment.

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Section 4 First Aid Measures

If exposed to fumes from overheating, move to fresh air. Consult a physician if symptoms persist. If molten PE contacts skin, cool rapidly with cold water. Do not attempt to peel material from skin. Wash skin with soap and plenty of water. Obtain medical attention to thermal burn.

Section 5 Fire Fighting Measures

Flash ignition temperature: 644F-720F

Unusual fire, explosion hazards: Dust generated during grinding, handling or storage can pose an explosion hazard. When processed at temperatures below 450 oF, no significant decomposition products occur. Maintain adequate ventilation in all process areas.

Hazardous combustion products: When burned, PE produces heat and high levels of dense, black smoke containing carbon monoxide and hydrogen cyanide.

Special fire fighting instructions: PE has high fuel content, and fires require strenuous efforts to extinguish.

Fire fighters should wear protective clothing and a pressure-demand breathing apparatus, which should be thoroughly cleaned after use.

Extinguishing media: Water spray, CO2 or Class A foam agent.

Section 6 Accidental Release Measures

Spill or release: Spilled pellets or scrap should be removed from floor areas immediately to provide stable footing.

Section 7 Handling and Storage

Avoid breathing dust and fumes.

Section 8 Exposure Controls/Personal Protection

Eye: Safety glasses are recommended to prevent particulate matter from entering eyes while grinding or machining.

Skin: Protective gloves are required when handling hot polymer. Also, long sleeve cotton shirt and long pants if handling molten polymer.

Ventilation: Local exhaust at processing equipment to assure that particulate levels are kept at recommended levels.

Respirator: None under normal processing, if ventilation is adequate.

Section 9 Physical and Chemical Properties

Appearance: Stock shape may be rod, sheet or tube form.

Odour: Essentially odourless.

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Section 9 Physical and Chemical Properties (continued)

Solubility in water: Insoluble

Volatile content %:

Specific gravity: >1

Section 10 Stability and Reactivity

Stability at room temperature: Stable.

Materials to avoid:

Conditions to avoid:

Section 11 Toxicological Information

Chronic toxicity: PE product shapes are harmless.

Medical conditions prone to aggravation by exposure: No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

Carcinogenicity:

Section 12 Ecological Information

Aquatic toxicity: Toxicity is expected to be low based on insolubility of polymer in water.

Section 13 Disposal Considerations

Spill or release: Clean up by vacuuming or wet sweeping to minimize dust exposure.

Waste disposal: Recycling is strongly encouraged.

Section 14 Transport Information

Hazard class: NA

Shipping name: NA

Section 15 Regulatory Information

This product contains no known toxic chemicals.

Section 16 Other Information

Issued: JAN 1, 2020

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