

City Plastics Pty Ltd  
61 East Street  
Brompton 5007  
South Australia

Ph: (+61) 8, 8346 6500

Fax: (+61) 8, 8346 6711

Email: info@cityplastics.com.au

www.cityplastics.com.au

ABN 20 101 181 793

ACN 101 181 793

- Sheet Plastics
- Cut to size & shape
- CNC Router cutting
- Fabrication
- Vacuum Forming
- Boat Screens & windows
- Signs & Displays
- Engineering Plastics
- Ecoscreen Plastic Lattice
- C/S Acrovyn
- Bld/Lic RL155051

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## MATERIAL SAFETY DATA SHEET, HDPE

<b>Section 1</b>	<b>Product and Company Identification</b>
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BROMPTON 5007  
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### Material Identification

**Product Name:** High Density Polyethylene

**Chemical Name:** POLYETHYLENE OR ETHYLENE-OLEFIN COPOLYMER

**CAS Number:**

**Product Use:** Thermoplastic for fabrication.

<b>Section 2</b>	<b>Composition/Information on Ingredients</b>
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<b>Section 3</b>	<b>Hazards Identification</b>
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**Ingestion:** Not a probable route of exposure.

**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.

<b>Section 4</b>	<b>First Aid Measures</b>
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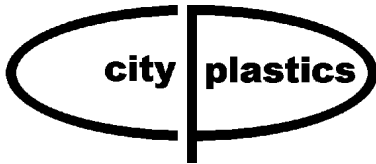
If exposed to fumes from overheating, move to fresh air. Consult a physician if symptoms persist. Wash skin with soap and plenty of water.

Flush eyes with water. Consult a physician if symptoms persist.

If molten material contacts skin, cool rapidly with cold water. Do not attempt to peel material from skin. Obtain medical attention to thermal burn.

**Chronic effects:** Not known.

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



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<b>Section 5</b>	<b>Fire Fighting Measures</b>
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**Flash ignition temperature:** 343°C / 649°F

**Unusual fire, explosion hazards:** Airborne dust may explode if ignited.

**Hazardous combustion products:** If thermally decomposed, flammable toxic gases may be released. Toxic gases will form upon combustion. Static discharge, material can accumulate static charges, which can cause an incendiary electrical discharge.

**Special fire fighting instructions:** Fire fighters and others exposed to products of combustion should wear full protective clothing including self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.

**Extinguishing media:** Water spray.

<b>Section 6</b>	<b>Accidental Release Measures</b>
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**Spill or release:** Clean up by vacuuming or sweeping to prevent falls.

<b>Section 7</b>	<b>Handling and Storage</b>
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Practice reasonable care and caution in handling.

<b>Section 8</b>	<b>Exposure Controls/Personal Protection</b>
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**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.

<b>Section 9</b>	<b>Physical and Chemical Properties</b>
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**Appearance:** Stock shape may be rod, plate or tube form.

**Odour:** Essentially odourless.

**Melting point:**

**Solubility in water:** Insoluble

**Volatile content %:**

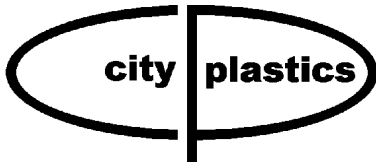
**Specific gravity:** 0.92 -0.970

<b>Section 10</b>	<b>Stability and Reactivity</b>
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**Stability at room temperature:** Stable

**Materials to avoid:**

**Conditions to avoid:**



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<b>Section 11</b>	<b>Toxicological Information</b>
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**Chronic toxicity:** 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:**

<b>Section 12</b>	<b>Ecological Information</b>
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**Aquatic toxicity:** Toxicity is expected to be low based on insolubility of polymer in water.

<b>Section 13</b>	<b>Disposal Considerations</b>
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**Spill or release:** Clean up by vacuuming or wet sweeping to minimize dust exposure.

**Waste disposal:** Landfill or incineration in compliance with federal, state, and local regulations.

<b>Section 14</b>	<b>Transport Information</b>
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**Hazard class:** NA

**Shipping name:** NA

<b>Section 15</b>	<b>Regulatory Information</b>
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This product contains no known toxic chemicals.

<b>Section 16</b>	<b>Other Information</b>
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Prepared by: Steven Cook

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The information set forth herein has been gathered from standard reference materials and/or supplier test data and is to the best knowledge and belief of City Plastics Pty Ltd, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones, which exist. City Plastics Pty Ltd makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility.