MATERIAL SAFETY DATA SHEET, PET

Section 1 | Product and Company Identification
City Plastics Pty Ltd
61 East Street
BROMPTON 5007
South Australia
Phone: +61,8,8346 6500
Fax: +61,8,8346 6711

Material Identification
Product Name: PET
Chemical Name: POLYETHYLENE TEREPHTHALATE (PET)
CAS Number: 25038-59-9
Product Use: Thermoplastic for fabrication.

Section 2 | Composition/Information on Ingredients
Composition is not hazardous.

Section 3 | Hazards Identification
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.

Section 4 | First Aid Measures
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: None known.
Medical conditions generally aggravated by this material: None known.
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Section 5 | Fire Fighting Measures
Flash ignition temperature: 350°C / 662°F
Method: ASTM D-1929
Unusual fire, explosion hazards: None known.
Hazardous combustion products: At temperatures above 350°C / 662°F, heavy fuming, carbon dioxide and carbon monoxide will occur.
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 or any class a extinguishing agent.

Section 6 | Accidental Release Measures
Spill or release: Clean up by vacuuming or sweeping to prevent falls.

Section 7 | Handling and Storage
Practice reasonable care and caution in handling.

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, plate or tube form.
Odour: Essentially odourless.
Melting point: 225-260°C / 437-500°F
Solubility in water: Insoluble
Volatile content %: <1%
Specific gravity: 1.33-1.43

Section 10 | Stability and Reactivity
Stability at room temperature: Stable
Materials to avoid: Strong oxidants and bases.
Conditions to avoid: None known.
### MATERIAL SAFETY DATA SHEET, PET

<table>
<thead>
<tr>
<th>Section 11</th>
<th>Toxicological Information</th>
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</thead>
<tbody>
<tr>
<td><strong>Chronic toxicity:</strong></td>
<td>PET does not appear to possess any toxicological properties.</td>
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<td><strong>Medical conditions prone to aggravation by exposure:</strong></td>
<td>None known.</td>
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<td><strong>Carcinogenicity:</strong></td>
<td>None known.</td>
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<th>Section 12</th>
<th>Ecological Information</th>
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<tbody>
<tr>
<td><strong>Aquatic toxicity:</strong></td>
<td>Toxicity is expected to be low based on insolubility of polymer in water.</td>
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<th>Section 13</th>
<th>Disposal Considerations</th>
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<tbody>
<tr>
<td><strong>Spill or release:</strong></td>
<td>Clean up by vacuuming or wet sweeping to minimize dust exposure.</td>
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<td><strong>Waste disposal:</strong></td>
<td>Landfill or incineration in compliance with federal, state, and local regulations.</td>
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<tr>
<th>Section 14</th>
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<tr>
<td><strong>Hazard class:</strong></td>
<td>NA</td>
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<tr>
<td><strong>Shipping name:</strong></td>
<td>NA</td>
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<tr>
<td><strong>NA</strong></td>
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<th>Section 16</th>
<th>Other Information</th>
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<tr>
<td><strong>Prepared by:</strong></td>
<td>Steven Cook</td>
</tr>
<tr>
<td><strong>Issued:</strong></td>
<td>1 September 2009</td>
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