

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

---

## MATERIAL SAFETY DATA SHEET, ABS

<b>Section 1</b>	<b>Product and Company Identification</b>
------------------	---

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:** ABS

**Chemical Name:** Acrylonitrile-Butadiene-Styrene Copolymer

**CAS Number:**

**Product Use:** Thermoplastic, for fabrication

<b>Section 2</b>	<b>Composition/Information on Ingredients</b>
------------------	---

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

Styrene CAS # 100-42-5

Acrylonitrile CAS # 107-13-1

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

Carbon Black CAS # 1333-86-4

Titanium Dioxide CAS # 13463-67-7

Triphenyl Phosphate CAS # 115-86-6

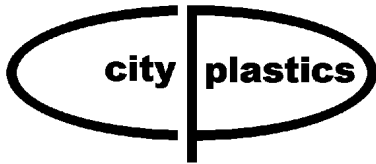
<b>Section 3</b>	<b>Hazards Identification</b>
------------------	-------------------------------

**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.



City Plastics Pty Ltd  
61 East Street  
Brompton 5007  
South Australia  
Ph: (+61) 8, 8346 6500  
Fax: (+61) 8, 8346 6711

## MATERIAL SAFETY DATA SHEET, ABS

<b>Section 4</b>	<b>First Aid Measures</b>
------------------	---------------------------

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

<b>Section 5</b>	<b>Fire Fighting Measures</b>
------------------	-------------------------------

**Flash ignition temperature:** 730-750 oF

**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, ABS produces heat and high levels of dense, black smoke containing carbon monoxide and hydrogen cyanide.

**Special fire fighting instructions:** ABS 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.

<b>Section 6</b>	<b>Accidental Release Measures</b>
------------------	------------------------------------

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

<b>Section 7</b>	<b>Handling and Storage</b>
------------------	-----------------------------

Avoid breathing dust and fumes.

<b>Section 8</b>	<b>Exposure Controls/Personal Protection</b>
------------------	--

**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.

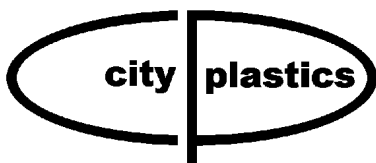
**Respirator:** None under normal processing, if ventilation is adequate.

<b>Section 9</b>	<b>Physical and Chemical Properties</b>
------------------	---

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

**Odour:** Essentially odourless.

**Melting point:**



City Plastics Pty Ltd  
61 East Street  
Brompton 5007  
South Australia  
Ph: (+61) 8, 8346 6500  
Fax: (+61) 8, 8346 6711

## MATERIAL SAFETY DATA SHEET, ABS

<b>Section 9</b>	<b>Physical and Chemical Properties (continued)</b>
------------------	---

**Solubility in water:** Insoluble  
**Volatile content %:**  
**Specific gravity:** >1

<b>Section 10</b>	<b>Stability and Reactivity</b>
-------------------	---------------------------------

**Stability at room temperature:** Stable.  
**Materials to avoid:**  
**Conditions to avoid:**

<b>Section 11</b>	<b>Toxicological Information</b>
-------------------	----------------------------------

**Chronic toxicity:** ABS 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>
-------------------	-------------------------------

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

<b>Section 13</b>	<b>Disposal Considerations</b>
-------------------	--------------------------------

**Spill or release:** Clean up by vacuuming or wet sweeping to minimize dust exposure.  
**Waste disposal:** Recycling is strongly encouraged.

<b>Section 14</b>	<b>Transport Information</b>
-------------------	------------------------------

**Hazard class:** NA  
**Shipping name:** NA

<b>Section 15</b>	<b>Regulatory Information</b>
-------------------	-------------------------------

This product contains no known toxic chemicals.

<b>Section 16</b>	<b>Other Information</b>
-------------------	--------------------------

Prepared by: Steven Cook  
Issued: 1 September 2009  
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, 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 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.