City Plastics Pty Ltd
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- 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, POLYCARBONATE

Section 1 Product and Company Identification

City Plastics Pty Ltd
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BROMPTON 5007
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Phone: +61,8,8346 6500
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Material Identification
Product Name: POLYCARBONATE
Chemical Name: POLY (BISPHENOL-A CARBONATE)
CAS Number: 25971-63-5 (BASE POLYMER)
Product Use: Thermoplastic, for fabrication.

Section 2 Composition/Information on Ingredients

NA

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: 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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Section 5 Fire Fighting Measures

Flash ignition temperature: 630°C / 1166°F
Unusual fire, explosion hazards: None known.
Hazardous combustion products: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide and hydrocarbon fragments.
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 Foam 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: Slight odour.
Melting point: This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.
Solubility in water: Insoluble
Volatile content %: Minimal
Specific gravity: 1.19 - 1.22

Section 10 Stability and Reactivity

Stability at room temperature: Stable
Materials to avoid: Not reactive.
Conditions to avoid: None know.

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Section 11 Toxicological Information

Chronic toxicity: None.
Medical conditions prone to aggravation by exposure: There are no known human health effects aggravated by exposure to this product.
Carcinogenicity: Not known.

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

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

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 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.