MATERIAL SAFETY DATA SHEET, ACRYLIC

Section 1  Product and Company Identification
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Material Identification
Product Name: ACRYLIC
Chemical Name: POLYMETHYLMETHACRYLATE
CAS Number: 9011-14-7
Product Use: Thermoplastic for fabrication.

Section 2  Composition/Information on Ingredients
NA

Section 3  Hazards Identification
Ingestion: Not a probable route of exposure. If swallowed, wash out mouth with water provided person is conscious. Call a physician.
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 acrylic contacts skin, cool rapidly with cold water. Do not attempt to peel material from skin. Obtain medical attention to thermal burn.
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**Section 4  First Aid Measures (continued)**

**Chronic effects:** Not considered toxic.

**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.

**Section 5  Fire Fighting Measures**

**Flash ignition temperature:** 304ºC (580ºF)

**Unusual fire, explosion hazards:** Under fire conditions, material may decompose to form flammable and or explosive mixtures in air.

**Hazardous combustion products:** When heated to decomposition acrylic emits acrid smoke and irritating fumes. Irritating to eyes, respiratory system and skin.

**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, carbon dioxide, dry chemical powder, or appropriate foam.

**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:**

**Solubility in water:** Insoluble

**Volatile content %:**

**Specific gravity:** 1.2
Section 10  Stability and Reactivity
Stability at room temperature: Stable
Materials to avoid: Strong oxidizing agents.
Conditions to avoid:

Section 11  Toxicological Information
Chronic toxicity: Not considered toxic.
Medical conditions prone to aggravation by exposure: 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: 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
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