MATERIAL SAFETY DATA SHEET, POLYPROPYLENE

Section 1  Product and Company Identification
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Material Identification
Product Name: POLYPROPYLENE
Chemical Name: POLYPROPYLENE HOMOPOLYMER (PP)
CAS Number: 9002-88-4
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.

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: NA
Unusual fire, explosion hazards: Emits toxic fumes under fire conditions.
Hazardous combustion products: Carbon monoxide and carbon dioxide.
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.

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, sheet or tube form.
Odour: Essentially odourless.
Melting point: 160-175°C / 320-347°F
Solubility in water: Insoluble
Volatile content %: <1%
Specific gravity: 0.900-0.910

Section 10  Stability and Reactivity
Stability at room temperature: Stable
Materials to avoid: Strong oxidising agents.
Conditions to avoid: None known.
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Section 11  Toxicological Information
Chronic toxicity: Polypropylene does not appear to possess any toxicological properties. Medical conditions prone to aggravation by exposure: Thermal decomposition products of Polypropylene have been reported to be irritating to the mucus membranes and respiratory tract. Carcinogenicity: None 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
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