

**MATERIAL SAFETY DATA SHEET****ABS**

<b>MSDS Name:</b>	<b>ABS</b>
<b>Synonyms:</b>	
<b>Chemical Name:</b>	Acrylonitrile-Butadiene-Styrene Copolymer
<b>CAS Number:</b>	9003-56-9

<b>Company Identification:</b>	<b>Hazel Mercantile Limited</b>
<b>Company Identification: (INDIA)</b>	701/712 A, Embassy Centre, Nariman Point, Mumbai - 400 021.
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**Section 2. Composition/Information on Ingredients**

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

<b>Exposure Limite:</b>	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

**Section 3. Hazards Identification**

<b>Ingestion:</b>	Not a probable route if ingestion.
<b>Skin:</b>	Molten material will cause thermal burns.
<b>Eye:</b>	Mechanical irritation only.
<b>Inhalation:</b>	Stock shapes are not repairable, 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. Vapors 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.



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

### Section 5. Fire Fighting Measures

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

### Section 6. Accidental Release Measures

Spill or release:	Spilled pellets or scrap should be removed from floor areas immediately to provide stable footing.
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### Section 7. Handling and Storage

Avoid breathing dust and fumes.

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

### Section 10. Stability and Reactivity

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

### Section 12. Toxicological Information

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:	

### Section 13. Ecological Information

Aquatic toxicity:	Toxicity is expected to be low based on insolubility of polymer in water.
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### Section 14. Disposal Considerations

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

### Section 15. Transport Information

Hazard class:	NA
Shipping name:	NA
	This product contains no known toxic chemicals.



## Section 16. Other Information

<b>MSDS Creation Date:</b>	August 16, 2007
<b>Revision #2 Date</b>	

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