Material Safety Data Sheet

- PRODUCT IDENTIFICATION:
  Atlas Fibre Company
  3721 W. Chase Avenue
  Skokie, Illinois 60076
  Emergency Telephone # 847-674-1234

  Chemical Name: See chart
  Chemical Family: Thermoset Laminates
  Trade Name & Synonyms: NONE
  Melting Point: See Chart
  Vapor Pressure: N/A
  Vapor Density: N/A
  Solubility in Water: N/A
  Appearance: Sheet, Rod, Tube, and Machined Parts (H2O = 1): See Chart
  Specific Gravity: Percent Volatile by Volume: .3 - 1.0%
  Evaporation Rate: N/A
  Color: Various, Natural to Black
  Odor: None to slight
  Flash Point: N/A
  Flammability Limits: N/A
  Extinguishing Media: Water, Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures: For significant fires, use self contained positive pressure breathing apparatus and wear full protection.

Unusual Fire and Explosion Hazard: May give off any or all of the hazardous decomposition products listed. Dust from dry fabrication operations may be explosive if mixed with air in critical proportions in the presence of ignition.

No TLV exist for thermoset laminate
Material Safety Data Sheet

Threshold Limit Value
plastic shapes. The hazards associated with thermoset laminate plastic shapes are for the products of combustion; See Chart.

Effects of Overexposure
Inhalation of dust may cause respiratory irritation. may cause skin or eye irritation.

Emergency and First Aid Procedures
In the event of acute exposure, remove to fresh air, administer oxygen, and seek physician's assistance.

Stability
Stable

Incompatibility
Not Incompatible

Hazardous Decomposition Products
See Chart

Hazardous Polymerization
N/A

Conditions to Avoid
When heated to decomposition or combustion temperatures, hazardous products of combustion occur as shown - See Chart

Steps to be taken in case material is released or spilled
N/A Waste Disposal Method: Approved landfill site in compliance with Federal, State, and Local regulations.

Respiratory Protection
If machining operations are not adequately ventilated, a N.I.O.S.H. approved respirator should be worn.

Ventilation
Mechanical (general) preferable, local exhaust acceptable.

Precautions to be taken in Handling and Storage: None
Other Precautions: When fighting fires use a self contained breathing apparatus.

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>GRADES</th>
<th>SPECIFIC GRAVITY</th>
<th>MELTING POINT :F</th>
<th>FLASH IGNITION TEMP :F</th>
<th>HAZARDOUS PRODUCTS OF COMBUSTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenolic Cellulose</td>
<td>X, XX, XXX</td>
<td>1.10-1.40</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, CO2, F</td>
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<tr>
<td>Phenolic Cellulose</td>
<td>C, CE</td>
<td>1.10-1.40</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, CO2, F</td>
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<tr>
<td>Phenolic Cellulose</td>
<td>L, LE</td>
<td>1.10-1.40</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, CO2, F</td>
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<tr>
<td>PhenoLic Nylon</td>
<td>N-1</td>
<td>1.15-1.19</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, CO2, F</td>
</tr>
<tr>
<td>Phenolic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Heat</th>
<th>Temp Limit</th>
<th>Volatility</th>
<th>Gases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass</td>
<td>G3</td>
<td>1.70-1.90</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, CO₂, F</td>
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<tr>
<td>Melamine Glass</td>
<td>G5, G-9</td>
<td>1.70-1.95</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, F, A</td>
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<td>Silicone Glass</td>
<td>G-7</td>
<td>1.55-2.05</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO</td>
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<tr>
<td>Epoxy Glass</td>
<td>G-10/FR4</td>
<td>1.65-2.20</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, CO₂, F, HBr</td>
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<tr>
<td>Epoxy Glass</td>
<td>G-11/FR5</td>
<td>1.65-2.20</td>
<td>N/A</td>
<td>Non-Volatile</td>
<td>CO, CO₂, F, HBr</td>
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<tr>
<td>Polyester Glass</td>
<td>GPO-1,2,3</td>
<td>1.61-2.00</td>
<td>N/A</td>
<td>650</td>
<td>CO</td>
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<tr>
<td>Polyester FR Glass</td>
<td>Electrical</td>
<td>1.83</td>
<td>N/A</td>
<td>650</td>
<td>CO, HBr</td>
</tr>
</tbody>
</table>

CO = Carbon Monoxide  
CO₂ = Carbon Dioxide  
F = Formaldehyde  
HBr = Hydrogen Bromide  
A = Ammonia

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