### 1 - PRODUCT AND COMPANY INFORMATION

1-1 Product information

Name: H.T. 220

1-2 Manufacturer

PERMALI COMPOSITES  
8, rue André Fruchard  
F-54320 MAXEVILLE - FRANCE  
Telephone: 33.3.83.34.24.24  
Fax: 33.3.83.32.23.18

### 2 - COMPOSITION AND INFORMATION ABOUT COMPONENTS

2-1 Description

Laminate made of:  
- Glass Fibers  
- Thermostable synthetic resin  
- Fillers  
- cured under pressure and high temperature

2-2 Hazardous ingredients

Not applicable in conformity with the directive 2002/95/CEE

### 3 - HAZARDS IDENTIFICATION

3-1 Product itself

No particular indications

3-2 Dust generated during machining

Can sometimes cause mechanical irritation to skin and less frequently to eyes

### 4 - FIRST AID MEASURES

When handled correctly, first aid and measures are not necessary  
Please note the comment under point 8

### 5 - FIRE FIGHTING MEASURES

5-1 Suitable extinguishing media

Water, dry powder, CO₂, foam, Halon
5-2 Unsuitable extinguishing media

No restriction known

5-3 Special protective equipment for a fire

In a sustained fire self-contained breathing apparatus should be worn

6 - MEASURES IN CASE OF INADVERTENT RELEASE

Not applicable

7 - HANDLING AND STORAGE

7-1 Handling

No particular requirement

7-2 Storage

No particular requirement

8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

8-1 Product itself

Not applicable

8-2 Dust generated during machining

Correct industrial practice should be followed, with extraction equipment on the machine (extraction speed ~ 22m/s).
Alternatively dust mask should be worn
Safety glasses with white shield are recommended

9 - PHYSICAL AND CHEMICAL PROPERTIES

9-1 Appearance

Form : Solid, Colour : light beige, Odour : odourless

9-2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>not applicable</td>
</tr>
<tr>
<td>boiling point</td>
<td>not applicable</td>
</tr>
<tr>
<td>decomposition temperature</td>
<td>past 400°C</td>
</tr>
<tr>
<td>flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>self ignition</td>
<td>not applicable</td>
</tr>
<tr>
<td>explosion hazard</td>
<td>not applicable</td>
</tr>
<tr>
<td>vapour pressure</td>
<td>not applicable</td>
</tr>
<tr>
<td>density</td>
<td>1.90</td>
</tr>
<tr>
<td>solubility in water</td>
<td>not soluble</td>
</tr>
<tr>
<td>solubility in oil</td>
<td>not soluble</td>
</tr>
<tr>
<td>partition coefficient</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
10 - STABILITY AND REACTIVITY

10-1 Conditions to be avoided : none

10-2 Substances to be avoided : none

10-3 Hazardous decomposition products

In a sustained fire the product may decompose releasing hazardous products on combustion.

At 600°C decomposition is:

- CO : < 7 g for 100g of THERMALITE 220
- CO₂ : < 60g for 100g of THERMALITE 220
- HCl : 0g for 100g of THERMALITE 220
- HBr : 0g for 100g of THERMALITE 220
- HCN : 0g for 100g of THERMALITE 220
- others : < 0.1g for 100g of THERMALITE 220

11 - TOXICOLOGICAL INFORMATION

11-1 Acute toxicity : not applicable

11-2 Local effects : not applicable

11-3 Sensitization : not applicable

11-4 Subacute, subchronic and prolonged toxicity : not applicable

12 - ECOLOGICAL INFORMATION

12-1 Mobility : not applicable

12-2 Degradability : not bio-degradable

12-3 Bio-accumulation potential : not applicable

12-4 Ecological effects : not applicable

13 - DISPOSAL CONSIDERATIONS

H.T. 220 is considered to be an inert solid waste not requiring hazardous waste disposal procedures. However THERMALITE 220 should be disposed of in a landfill in accordance with all applicable, local or state regulations in conformity with the directive 2002/96/CEE.
### 14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Type</th>
<th>RID/ADR, DoT 49 CFR</th>
<th>Surface transport</th>
<th>ADN/ ADNR</th>
<th>Inland waterway transport</th>
<th>IMDG</th>
<th>Ocean going transport</th>
<th>IATA-DGR</th>
<th>Air transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-1 Surface transport</td>
<td>not dangerous goods</td>
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<tr>
<td>14-2 Inland waterway transport</td>
<td>not dangerous goods</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>14-3 Ocean going transport</td>
<td>not dangerous goods</td>
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<tr>
<td>14-4 Air transport</td>
<td>not dangerous goods</td>
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<td>14-5 Further information</td>
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</tbody>
</table>

### 15 - REGULATIONS

- Description of danger and identification letter: not applicable
- Hazard phrases (R): not applicable
- Safety recommendations (S): not applicable

### 16 - OTHER INFORMATION

None

N.B. : The information contained here is based on the present state of our knowledge, without warranty. It neither constitutes quality characteristics nor absolves your personal responsibility when using the product and / or observing legal regulations and conditions.