1. PRODUCT AND COMPANY DATA

PRODUCT NAME (OR TRADE NAME): COBRITHERM HTC

PRODUCT DESCRIPTION:
Rigid laminate cladded one side with thick aluminium, and ED copper foil in the other side. With a proprietary formulated epoxy ceramic resin and epoxy-glass pre-preg bonding layer modified to enhance thermal conductivity. Mainly intended for SMD technologies.

COMPANY ADDRESS:
GABRIEL BENMAYOR S.A. – AISMALIBAR
Calle Bach 2-B, Pol. Ind Foinvasa
E-08110 Montcada I Reixac (Barcelona)
PHONE: (34) 93 572 41 61 FAX: (34) 93 572 41 65

2. CHEMICAL COMPOSITION, DATA ON COMPONENTS

Roughly percentage excluding copper:
- 1% Glass cloth
- 4% Epoxy resin

Copper and aluminum content in standard laminate 1.6mm (1500/130/35) are around 6 and 89% respectively.

DANGEROUS COMPONENTS:
DANGER CLASS:
SAFETY PHRASES:

3. HAZARDS IDENTIFICATION

None

4. FIRST AID MEASURES

Not applicable

5. FIRE FIGHTING MEASURES

All the available fire-extinguishing systems could be used. The material is rated as fire resistant. In the event of fire, cautions must be taken with the fumes. Heavy fumes containing phenols and formaldehyde will be released at temperatures higher than 300°C

6. MEASURES IN CASE OF SPILLAGE

Not applicable
# 7. HANDLING AND STORAGE
Can be stored in any indoor climate conditions.

# 8. PERSONAL PROTECTION AND LIMITS OF EXPOSURE

**INHALATION:**
- **THRESHOLD LIMIT VALUE:** Not applicable
- Work in good ventilated rooms during machining or heating processes.
- Provider of dust safety suction systems during machining processes.
- Use personnel dust mask in systemic or prolonged dust exposures.

**EYES:** Not applicable

**SKIN AND HANDS:** Not applicable

**GENERAL HYGIENIC RECOMMENDED RULES**
- Keep working clothes clean of dust, by some safety suction device.
- Wash the hands before eat or drink during working breaks.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NATURE:</strong></td>
<td>Solid, polymeric matrix</td>
</tr>
<tr>
<td><strong>COLOR:</strong></td>
<td>White</td>
</tr>
<tr>
<td><strong>ODOR:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY:</strong></td>
<td>2.7 kg/cm³ (bulk mass)</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN WATER:</strong></td>
<td>Insoluble</td>
</tr>
<tr>
<td><strong>IGNITION POINT:</strong></td>
<td>&gt;250°C</td>
</tr>
<tr>
<td><strong>THERMOL DECOMPOSITION FUMES:</strong></td>
<td>See paragraph 5</td>
</tr>
</tbody>
</table>

# 10. STABILITY AND REACTIVITY
The product is stable and unreactive in the normal storage and process conditions.

# 11. TOXICOLOGICAL INFORMATION
N/A

# 12. ECOLOGICAL INFORMATION
The product is not easily biodegradable

# 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL**
Material could be disposed in underground allowed sites. Because of its glass content the incineration could be only done in appropriate plants. The product is free from dibenzodioxines and dibenzofuranes precursor components. Checking of the local environmental regulations is strongly recommended.
14. TRANSPORT REQUIREMENTS
None

15. REGULATORY INFORMATION
N/A

16. OTHER INFORMATION
International standards covering the product. EN 60249-1
IPC-TM 650
METAL CLAD LAMINATE