

PRODUCT SAFETY DATA SHEET ACCORDING TO EEC/91/155 RULES

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| PRODUCT: COBRITHERM HTC | ISSUE DATE: 01/09/2011 |
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1. PRODUCT AND COMPANY DATA

PRODUCT NAME (OR TRADE NAME): **COBRITHERM HTC** —

PRODUCT DESCRIPTION:

Rigid laminate clad 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:

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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

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PAGE: 2 / 3**7. HANDLING AND STORAGE**

Can be storage in any indoor clima 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

NATURE: Solid, polymeric matrix

COLOR: White

ODOR: None

SPECIFIC GRAVITY: 2.7 kg/cm³ (bulk mass)

SOLUBILITY IN WATER: insoluble

IGNITION POINT: >250°C

THERMOL DECOMPOSITION FUMES: See paragraph 5

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 dibenzofuran precursor components. Checking of the local environmental regulations is strongly recommended.

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PAGE: 3 / 3**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