

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: KB-6160/6150/KB-6160C/6160A(FR-4)**

## 1 - PRODUCT AND COMPANY IDENTIFICATION

- 1.1. Chemical name of the product : Epoxy E-Glass Copper Clad Laminate  
1.2. Supplier product code : **KB-6160/6150(FR-4)**  
1.3. Supplier : KingBoard Laminates Limited

## 2 - COMPOSITION / INFORMATION ON COMPONENTS

- 2.1. Components:
- |                       |                          |                    |        |
|-----------------------|--------------------------|--------------------|--------|
| a) Reinforce material | : woven e-glass fabric   | CAS NO. 65997-17-3 | 41~44% |
| b) Adhesives          | :Brominated epoxy resins | CAS NO. 26265-08-7 | 37~40% |
| c) Cladding           | : copper foil            | CAS NO. 7440-50-8  | 15~17% |
- 2.2. Hazardous components : none  
2.3. Labeling : none

## 3 - HAZARD IDENTIFICATION

- 3.1. Effect on health : none  
3.2. Effect on environment : none

## 4 - FIRST AID PROCEDURES

- 4.1. First aid after inhalation : NA  
4.2. First aid after skin contact : irritation may occur after extended contact; in this case, wash skin with soap and water  
4.3. First aid after eye(s) contact : NA  
4.4. First aid after ingestion : NA

## 5 - FIRE FIGHTING PROCEDURES

- 5.1. Fire and explosion hazard : none  
5.2. Products of decomposition : CO<sub>2</sub>, HBr  
5.3. Extinguishing media :  
- Recommended : usual means  
- Non-recommended : none  
5.4. Special individual protection in case of fire fighting : breathing apparatus to protect oneself against smoke emitted  
5.5. Others recommendations : none

## 6 - ACCIDENTAL RELEASE PROCEDURES

- 6.1. Individual protection : NA  
6.2. Environment precautions : none  
6.3. Cleaning methods : NA  
6.4. Secondary risks : none

## 7 - HANDLING AND STORAGE

- 7.1. Workers protection prevention : none  
7.2. Fire and explosion prevention : NA  
7.3. Handling precautions : none  
7.4. Incompatible materials : avoid strong oxidizers and corrosive  
7.5. Recommended storage condition : room temperature  
7.6. Packaging materials - Recommended : with original package  
- Non-recommended : none  
7.7 Shelf life : 12 month

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**8 - EXPOSURE CONTROL / PERSONAL PROTECTION**

- 8.1. Specific control parameters : none
- 8.2. Recommended supervision procedures : none
- 8.3. Individual protection equipments : none

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1. Form : solid, sheet form
- 9.2. Colour : Yellow /Nature
- 9.3. Odour : none

**10 - STABILITY AND REACTIVITY**

- 10.1. Conditions to avoid : exposure to the direct rays of the sun or rain and holding corrosive gas
- 10.2. Products to avoid : strong oxidizers
- 10.3. Hazardous decomposition products : see paragraph 5.2

**11 - TOXICOLOGICAL INFORMATION**

- 11.1. Inhalation toxicity : NA
- 11.2. Skin contact toxicity : NA
- 11.3. Eye(s) contact toxicity : NA
- 11.4. Ingestion toxicity : NA

**12 - ECOLOGICAL INFORMATION**

- 12.1. Mobility : NA
- 12.2. Degradability : NA

**13 - DISPOSAL CONSIDERATIONS**

- 13.1. Disposal method : incineration
- 13.2. Waste disposal of remains : nothing specific
- 13.3. Contaminated packing disposal : NA

**14 - TRANSPORT INFORMATION**

- Precaution and special measures required : none

**15 - REGULATORY INFORMATION**

- Any specific regulations : none

**16 - OTHER INFORMATION :**

Information mentioned herein is based upon our current knowledge regarding the product concerned on OCT 1, 2008. They are given in good faith. Users attention is drawn on potential risks brought upon when a product is used for other applications than ones it is designed for.