

# Health & Safety Data Sheet

## 1. Product names

Phenolic(Epoxy) Glass Cloth laminated sheets tubes & rods - Grade refs. 3240, G10, G11, 3640 and 3840

## 2. General description

Synthetic resin bonded laminated material in sheet, tube and rod format. Components / panels / parts manufactured from the above materials.

## 3. Intended uses

Engineering and electrical insulation applications.

## 4. Chemical composition

Fiberglass cloth substrate bonded with fully cured / cross-linked Epoxy-phenolic resin.

## 5. Reactivity data

Not applicable

## 6. Physical properties

6.1 Physical state: Solid

6.2 Thermal characteristics: Stable under normal conditions of use or storage

6.3 Solubility: Insoluble in water

6.4 Density: 1.75– 1.85g/cm<sup>3</sup>

## 7. Hazardous constituents

None

## 8. Occupational exposure limits

Materials as supplied are not subject to occupational exposure limits. Note: Machining of these materials may produce dust. General dust in the workplace may be subject to statutory exposure limits. Suitable precautions should be taken to ensure dust levels are within acceptable limits during machining operations. Local exhaust ventilation and use of suitable dust / particle masks is advised.

## 9. Fire and explosive hazards

These materials in the solid state are resistant to burning under normal conditions of storage and use. In a fire situation, the organic components may decompose, causing the materials to ignite, thus contributing to the conflagration. In the event of combustion, decomposition products will vary depending upon variables such as temperature and degree of combustion. Normal fire fighting procedures should be followed including use of appropriate respiratory device. Finely divided dust of an organic nature is a potential source of explosion / combustion. Suitable precautions should be taken in the design of dust extraction / containment equipment.

## 10. Handling and use precautions

Care should be taken when handling sheets to prevent injury caused by sharp edges. Avoid inhalation of dust and protect eyes during machining and cutting operations.

### **11. Storage and transport precautions**

Materials have a density of 1.75 to 1.85 and consequently full size sheets in excess of 7mm will exceed 25kg in weight. Appropriate handling and lifting arrangements should be made for larger sheets where safe lifting limits are exceeded. Surfaces of sheets are normally smooth which can lead to accidental slippage if sheets are unevenly stacked. Care should be taken to ensure that sheets are stored in such a way as to prevent slippage.

### **12. Emergency action**

12.1 Fire: Extinguish with water, foam or CO<sub>2</sub>

12.2 Spillage: Not applicable

12.3 Inhalation: For significant inhalation of dust or smoke, consult a doctor

12.4 Ingestion: For significant ingestion of dust or eye irritation, consult a doctor. Do not induce vomiting

12.5 Skin contact: Wash thoroughly with water to remove dust

12.6 First aid: Not applicable

### **13. Ecological information**

Do not dispose of waste materials or dust in open air or in the water system.

### **14. Waste disposal**

Dispose of waste in accordance with local regulation. Typically disposal of solid material by burial at an approved landfill site or by controlled incineration is recommended.

### **15. Other information and references**

Not applicable