



BERYLLIUM OXIDE

INTRODUCTION:-

We highly recommend that all UK customers obtain and read the Health and Safety Executive leaflet Beryllium and You (HSE reference INDG311).

A number of components and products supplied by Aspen Electronics Ltd contain Beryllium Oxide. This material, whilst widely used within the electronics industry, is known to be, in some circumstances, toxic.

Components and products supplied by Aspen Electronics Ltd that contain Beryllium Oxide include, but are not limited to the following:-

Chip, Flange and Coaxial Attenuators and Terminations manufactured by ResNet Microwave Inc.

Coaxial Attenuators and Terminations manufactured by Bird Electronic Corporation.

A detailed list is available upon request.

GENERAL INFORMATION:-

Name: Beryllium Oxide
Other Names: Beryllia Oxide
Molecular Formula: BeO
CAS No: 1304-56-9
EINECS No: 215-133-1

PHYSICAL DATA:-

Appearance: Solid
Boiling Point: 3900°C
Density (g/cm³): 3.01

All other commonly quoted parameters are not applicable

STABILITY:-

Stable.

TOXICOLOGY:-

Extremely toxic by inhalation and ingestion. Typical LD50s for beryllium compounds are between 0.5 and 5 mg/kg. Probable human carcinogen. Serious respiratory irritant. May be harmful by skin contact.

PACKAGING:-

Components made using Beryllium Oxide.

Components made using Beryllium oxide should be packaged in such a way as to protect the individual components from damage. Packaging should be transparent to enable potential handlers to determine the physical status before potential exposure.

PACKAGING (cont) :-

Products containing components made using Beryllium Oxide may be packed in normal commercial packaging.

LABELLING:-

All components and products made from or containing Beryllium Oxide shall carry an appropriate warning label. An example is shown below.



Where size does not permit such a label to be affixed, the label shall be affixed to the packaging.

HANDLING:-

Components made using Beryllium Oxide.

Handle only under controlled conditions. Avoid breathing dust or powder. Use safety glasses, gloves and good ventilation. Under no circumstances should components be sanded, scraped, drilled, machined or tampered with in any way.

Products containing components made using Beryllium Oxide are intrinsically safe. However such components should not be tampered with in any way. In particular they should not be; Disassembled, Machined, Sawn, Cut, Crushed or Incinerated.

DISPOSAL:-

Products made from or containing Beryllium Oxide constitute Hazardous Waste and should be disposed of accordingly.

These products must not be thrown away with general industrial or domestic waste.

Do not crush or incinerate.

NOTE: This data sheet has been prepared in order to give our customers general information regarding a potentially toxic substance. Aspen Electronics Ltd takes no responsibility for its use, misuse or accuracy. Knowledge of BeO and related legislation is constantly changing, as such all customers should seek the appropriate advice from their Health and Safety officer to ensure they comply with the latest procedures and legislation.

