

AMPCOLOY 83

Material Safety Data Sheet



1 - NOMINAL COMPOSITION

-Beryllium.....	2.0%
-Cobalt + Nickel.....	0.5%
-Others max.....	0.5%
-Copper.....	balance

2 - HAZARDS

When supplied in solid form the alloys are non-hazardous. When supplied in gas form, an inhalation of dust or fumes presents a hazard (See Section 10: Toxicological Information).

3 – FIRST AID MEASURES

- Eyes:* There is no special hazard to the eyes. Use normal industrial protection to prevent foreign bodies from entering the eyes.
- Cuts:* Treat cuts like those from other metals. Remove embedded material, clean thoroughly and dress the wound.
- Ingestion:* There is no special hazard from ingestion. Use normal industrial hygiene.
- Exposure to Dust or Fumes:* In practice, any exposure can only arise from operations such as grinding, and abrading which is likely to be at low levels and will not cause immediate symptoms. In any events, remove the exposed persons to fresh air and seek medical attention.

4 – FIRE FIGHTING

4.1 – *Methods of Extinction:*

- Recommended: not applicable
- Contraindicated: no water on molten metal on pain of explosion

4.2 – *Fire and Explosion Hazards:*

- The alloys are non-flammable.

4.3 – *Fire Protection:*

- No special precautions required.

5 – ACCIDENTAL RELEASE

Not applicable to the alloys in massive forms.

6 – HANDLING AND STORAGE

No special precautions required.

7 – EXPOSURE CONTROLS

7.1 – *Individual Precautions:*

No hazard for massive forms. During operations such as machining and conversion work producing breathable particles or fumes, air extraction and filtration are required to reduce beryllium at $2 \mu\text{g}/\text{m}^3$. Personal respiratory protection equipment is advisable.

7.2 – *Ecological Precautions:*

Beryllium alloys sold in solid forms are not hazardous to the environment.

7.3 – *Cleaning Methods:*

Not necessary for this product.

8 – PHYSICAL AND CHEMICAL PROPERTIES

Color: Copper (on massive form).

AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS

info@ampcometal.com

www.ampcometal.com

Odour: No special odour.
Density: 8.8 Kg/dm³.
Solubility in water: None.
Flash Point: 1025 °C



9 – STABILITY AND REACTIVITY

The alloys are stable. They do not corrode, dissolve or disintegrate under normal conditions.

10 – TOXICOLOGICAL INFORMATION

Inhalation of dust and fumes containing beryllium can lead to Chronic Beryllium Disease in a small percentage of people. The disease causes impaired lung function and can be fatal. The EEC has classified this product as category II R49 carcinogen by inhalation. No risk is posed by alloys in massive form.

11 – ECOLOGICAL INFORMATION

No ecological risk is posed by alloys in massive form.

12 – TRANSPORT INFORMATION

In massive form this product is non-hazardous for purposes of transportation. EEC hazard labelling is not required.

13 – REGULATORY INFORMATION

- Labelling is not required
- EEC Classification: See Section 10
- Limited Value Exposure: See Section 7

Ventilating and Cleaning the Buildings:

- Article R232-5 to R232-5-14 of the Work Code
- Ministerial Work Circular of May 9, 1985
- Stoppages on the 8th and 9th of October 1987 (J.O. for October 1987) relating to controls of the installations.

Prevention of Chemical Risks:

-Decree n°92-1261 of 03/12/1992 published in J.O. On 05/12/1992.

14 – FURTHER INFORMATION

Ampcoloy 83 presents no risk except under special conditions, which produce breathable particles or fumes. In this case, proper risk assessment is required. Air extraction and filtration, or personal respiratory equipment will usually deal with these cases.