

**1. Identification of the substance/Preparation and of the Company/Undertaking**

Product name: METAPLUS® VP  
Application: cobalt-chromium alloy for model casting

Manufacturer: AZ DENTAL GMBH  
Siemensstrasse 5  
DE-78467 Konstanz  
+49 7531 50024  
+49 7531 50026

**2. Composition/Information on Ingredients**

| Composition: | SOFT           | HARD            |
|--------------|----------------|-----------------|
|              | Cobalt 65 %    | Cobalt 63 %     |
|              | Chromium 27 %  | Chromium 28,5 % |
|              | Molybdenum 6 % | Molybdenum 6 %  |
|              | Silicium 0,4 % | Silicium 0,4 %  |
|              | Tungsten 1 %   | Tungsten 1 %    |
|              | Mangan 0,5 %   | Mangan 0,6 %    |
|              | Carbon 0,1 %   | Carbon 0,5 %    |

Hazardous ingredients: None

**3. Hazards Identification**

None if the product is used according to instructions.

**4. First Aid Measures**

No special measures required.

**5. Fire-fighting Measures**

Not applicable, as the product is neither flammable nor combustible.

**6. Accidental Release Measures**

No special measures required.

**7. Handling and Storage**

Handling: (Instructions on safe handling)  
Provide good ventilation/suction at the workplace.

Storage: (Requirements for storerooms/containers)  
No special safety measures required.

**8. Exposure Controls/Personal Protection**

Occupational exposure limits: MAK-/TRK value cobalt: 0.5/--- mg/m<sup>3</sup>

Personal protective equipment:

|                             |   |
|-----------------------------|---|
| General protective measures | - avoid skin contact<br>- good personal hygiene |
| Respiratory protection      | - dust extraction                               |
| Eye protection              | - safety goggles                                |
| Hand protection             | - protective gloves                             |

## 9. Physical and Chemical Properties

|                  |                             |
|------------------|-----------------------------|
| Physical state:  | Solid                       |
| Colour:          | Metallic lustre             |
| Odour:           | Odourless                   |
| Melting point:   | hard 1'335°C / soft 1'385°C |
| Density:         | 8.3 g/cm <sup>3</sup>       |
| Water solubility | Insoluble                   |

## 10. Stability and Reactivity

Hazardous decomposition products:

No decomposition when stored and used according to instructions.

May emit metallic fumes during melting.

## 11. Toxicological Information

After many years of practical experience no known hazardous effects if used with appropriate hygienic measures.

## 12. Ecological Information

Ecological and ecotoxicological test data on this product is not available.

## 13. Disposal Considerations

It should be disposed of in accordance with local authority regulations.

## 14. Transport Information

Not a dangerous product within the terms of transport regulations.

## 15. Regulatory Information

Labelling in accordance with EU directives and dangerous material regulations:

Labelling non-compulsory.

## 16. Other Information

This information is based on knowledge and experience as of the date of issue of this safety data sheet. It does not represent a guarantee of properties. It should not be altered or ascribed to other products.

The product must be used by trained dental technicians who know how to use it correctly.