

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 01.04.2010

Revision: 01.04.2010

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name: Porta Optimum Lot 710**
- **Application of the substance / the preparation**  
Precious metall alloy for dental technology  
Hard solder
- **Manufacturer/Supplier:**  
Wieland Dental + Technik GmbH & Co.KG  
Schwenninger Str. 13  
75179 Pforzheim  
Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959
- **Further information obtainable from:**  
Abteilung Umweltschutz  
Marcus.Mueller@wieland-dental.de
- **Information in case of emergency:**  
+49 (07231)-37050  
( Be kindly advised that this number can only be contacted at usual office hours.)

### 2 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **GHS label elements**  
Safety data sheet available on request.
- **Additional information:** In compact form is this alloy not dangerous for human or the aquatic environment.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Metal in compact form.

- **Dangerous components:**

CAS: 7440-22-4	silver	10-25%
EINECS: 231-131-3		

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** After contact with the molten product, cool rapidly with cold water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Seek immediate medical advice.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

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## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Pick up mechanically.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

### · Ingredients with limit values that require monitoring at the workplace:

7440-22-4 silver

WEL Long-term value: 0.1 mg/m<sup>3</sup>

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Solid in various forms
<b>Colour:</b>	Yellow
<b>Odour:</b>	Odourless

### · Change in condition

**Melting point/Melting range:** 680 - 700°C  
**Boiling point/Boiling range:** Undetermined.

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· <b>Flash point:</b>	Not applicable.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density:</b>	-
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Solvent content:</b>	
· <b>Solids content:</b>	100 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with strong acids.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **General notes:** Generally not hazardous for water

## 13 Disposal considerations

- **Product:**
- **Recommendation** Contact manufacturer for recycling information.

### · European waste catalogue

10 00 00	WASTES FROM THERMAL PROCESSES
10 07 00	wastes from silver, gold and platinum thermal metallurgy
10 07 04	other particulates and dust

- **Uncleaned packaging:**
- **Recommendation:** Packaging may be reused or recycled after cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** No

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## 15 Regulatory information

- **Labelling according to EU guidelines:**

Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

- **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

- **National regulations:**

- **Waterhazard class:** Generally not hazardous for water.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Abteilung Umweltschutz

- **Contact:** Herr Marcus Müller

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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