

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:** Auropal Lot M-1, Auropal Lot W-2

- **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 EINECS: 231-131-3	silver		10-25%
CAS: 7440-50-8 EINECS: 231-159-6	copper		3-8%
CAS: 7440-05-3 EINECS: 231-115-6	palladium	 O; R 8 Danger:  2.14/2 Warning:  2.11/2	Lot M-1: 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.

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(Contd. on page 2)

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(Contd. of page 1)

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

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/m³

7440-50-8 copper

WEL Short-term value: 2** mg/m³
 Long-term value: 0.2* 1** mg/m³
 *fume **dusts and mists (as Cu)

- **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.

(Contd. on page 3)

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· **Eye protection:** Safety glasses

(Contd. of page 2)

9 Physical and chemical properties

· General Information

Form:	Solid in various forms
Colour:	Yellow
Odour:	Odourless

· Change in condition

Melting point/Melting range: ca. 710 - 770°C
Boiling point/Boiling range: Undetermined.

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

(Contd. on page 4)

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(Contd. of page 3)

- **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:** Yes

15 Regulatory information

- **Labelling according to EU guidelines:**
No markings required.
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.

- **Relevant R-phrases**
8 Contact with combustible material may cause fire.
- **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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