

# Safety Data Sheet

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier** INTERPAL, INTERPAL S, INTERPAL SE**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Products are used for casting teeth coatings and bridgework of all types.**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:	INTERDENT d.o.o.	<i>Production:</i> INTERDENT d.o.o.
Street:	Opekarniška cesta 26	Dol 1
Country code /Postal code/City:	SI-3000 Celje	SI-3342 Gornji Grad
Telephone:	+386(0) 425-62-00	
Fax:	+368(0) 490-62-02	

**1.4 Emergency telephone number**

Emergency phone:	112 (EU)
	+386(0) 425-62-00 (Mon – Fri: 8.00 -16.00)

**SECTION 2: Hazards Identification****2.1 Classification of the substance or mixture**

Ag-Pd alloys are not classified as hazardous according to Regulation (EC) No 1272/2008.

**2.2 Label elements**

None for the product.

**2.3 Other hazards***Routes of Entry/Exposure:*

By processing of metallic prosthetic frameworks dust is generated which may cause allergic reactions.

*Carcinogenicity:*

IARC, NTP, and OSHA do not list Ag-Pd alloys as a carcinogen.

## Safety Data Sheet

### **SECTION 3: Composition / information on ingredients**

#### **3.1 Mixture**

Chemical name	CAS Nr.	%	Classification according to EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
Silver [Ag]	7440-22-4	56 - 66	n.a.	n.a.
Palladium [Pd]	7440-05-3	18 - 32	n.a.	n.a.
Gold [Au]	7440-57-5	2 - 11	n.a.	n.a.
Copper [Cu]	7440-50-8	7 - 13	n.a.	n.a.

### **SECTION 4: First Aid Measures**

#### **4.1 Description of first aid measures**

No special measures required.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Refer to Section 11 – Toxicological information

#### **4.3 Indication of any immediate medical attention and special treatment needed**

N.a.

### **SECTION 5: Fire Prevention Regulations**

#### **5.1 Extinguishing media**

N.a.

#### **5.2 Special hazards arising from the substance or mixture**

Not applicable for solid product.

#### **5.3 Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Do not inhale explosion and combustion gases.

## Safety Data Sheet

### ***SECTION 6: Accidental Substance Release Regulations***

#### **6.1 Personal precautions, protective equipment and emergency procedures**

To prevent ingestion following use of the product, wash hands and face before eating, drinking, applying cosmetics, or using tobacco. Remove contaminated clothing or protective equipment before entering eating/drinking areas.

#### **6.2 Environmental precautions**

Prevent spills from entering sewers or contaminating soil.

#### **6.3 Methods and material for containment and cleaning up**

If a finely-divided form of product is spilled, clean up spillage so as to minimize dispersion of dust. Either wet sweeping or vacuuming using HEPA filtration is recommended.

#### **6.4 Reference to other sections**

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

### ***SECTION 7: Handling and storage***

#### **7.1 Precautions for safe handling**

Prevent formation of dust. If dust is formed, avoid breathing it. Avoid skin and eye contact. The metal powder that is formed during treatment should be suck with vacuum cleaner.

#### **7.2 Conditions for safe storage, including any incompatibilities**

No special conditions for storage.

#### **7.3 Specific end use(s)**

Product is used in dental laboratories.

### ***SECTION 8: Exposure controls/personal protection***

#### **8.1 Control parameters**

The OEL values for alloy are not defined. Because of safety reasons the PEL values for pure metal should be considered:

##### **Copper**

ACGIH TLVs: 0.2 mg/m<sup>3</sup> TWA (fume); 1 mg/m<sup>3</sup> TWA (dusts and mists)

OSHA PELs: 0.1 mg/m<sup>3</sup> TWA (fume); 1 mg/m<sup>3</sup> TWA (dusts and mists)

## Safety Data Sheet

### Silver

ACGIH TLV: 0.1 mg/m<sup>3</sup> TWA (metal)OSHA PEL: 0.01 mg/m<sup>3</sup> TWA

### 8.2 Exposure controls

#### *Personal protective equipment*

*General protection and hygienic measures:*

Consider good hygienic precaution.

#### *Breathing equipment:*

Use dust extractor and protective mask with filter during treating and polishing.

#### *Protection of hands:*

Protective gloves during treating and polishing.

#### *Eye protection:*

Protective goggles during treating and polishing.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

<b>Form</b>	solid
<b>Colour</b>	Silver-grey, metallic
<b>Odour</b>	odourless
<b>Boiling point</b>	n.a.
<b>Melting point</b>	Melting interval between 900 – 1100 °C
<b>Density at 20°C</b>	10,5 -11,5g/cm <sup>3</sup>
<b>Solubility in water</b>	insoluble
<b>Flash point</b>	n.a.
<b>Explosion limits</b>	n.a.

### **9.2 Other information**

None

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

No data available

## Safety Data Sheet

### 10.3 Possibility of hazardous reaction

No dangerous reaction known.

### 10.4 Conditions to avoid

Dust-generating activities.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

*Toxicokinetics, absorption and distribution:*

This product has not been subject to toxicological testing.

*Acute health effects:*

**Silver** LD50: >2000 mg/kg (oral/rat)

No other data available

*Chronic Health Effects:*

*Sensitization:*

No data available

*Skin effects:*

No data available

*Respiratory tract:*

No data available

*Carcinogenicity:*

IARC, NTP and OSHA do not list Ag-Pd alloy products as carcinogens.

*Mutagenicity and teratogenicity:*

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Not available for the product.

## Safety Data Sheet

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

Not available for the product.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to EC 1907/2006 REACH, annex XIII.

**12.6 Other adverse effect**

Not known

***SECTION 13: Disposal considerations***
**13.1 Waste treatment methods**

Dispose according to the local law.

***SECTION 14: Transport Information***

	Land-Road/Railway (ADR/RID):	Inland waterways (ADNR):	Sea (IMDG):	Air (IATA):
<b>14.1 UN number</b>	No data available			
<b>14.2 UN proper shipping name</b>	No data available			
<b>14.3 Transport hazard class(es)</b>	No data available			
<b>14.4 Packing group</b>	No data available			
<b>14.5 Environmental hazards</b>	No data available			
<b>14.6 Special precautions for user</b>	No special precautions			
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	No data available			
Not a dangerous product within the meaning of the transport regulations.				

## Safety Data Sheet

### **SECTION 15: Regulatory information**

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

*EU Label Information:*

Classification and labeling have been performed according to Regulative 1272/2008.

*EU Hazard Symbol and Indication of Danger:*

According to Regulation EC 1272/2008 this product is not classified as hazardous.

#### **15.2 Chemical safety assessment**

Chemical safety assessment was not carried out.

### **SECTION 16: Other information**

*Revision:*

Version 02 issued on May 2017 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

*Legend of abbreviations:*

IARC: International agency for research on cancer

NTP: National toxicology program

OSHA: Occupational safety and health administration

OEL: Occupational exposure limit

LD<sub>50</sub>: Median lethal dose; the dose causing 50% lethality

OSHA PELs: Permissible Exposure Limits - 8-hour TWA (time-weighted average) concentrations unless otherwise noted.

*Disclaimer of expressed and implied warranties:*

The information contained in the safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.