

**SAFETY DATA SHEET (GHS)**

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER****1.1 Product identifier:-**

<b>Product name:</b>	<b>Amalcap Plus (Powder)</b>
<b>Product number:</b>	532281AN / 532282AN / 532283AN / 532287AN / 532288AN / 532289AN/ 575753/ 575754/ 575755

**1.2 Other means of identification:-**

Not applicable.

**1.3 Recommended use of the chemical and restrictions on use:-**

Not applicable.

**Identified uses:** | Dental filling material – amalgam (Pre-dosed capsules).**1.4 Details of the manufacturer and importer:-**

<b>Manufacturer:</b>	Ivoclar Vivadent AG Bendererstrasse 2 FL-9494 Schaan Principality of Liechtenstein Tel: + 423 235 35 35 Fax: + 423 235 33 60
<b>Importer:</b>	Ivoclar Vivadent Ltd 12 Omega St, Rosedale, Auckland, New Zealand Phone +64 9 914 9999 Fax +64 9 914 9990 www.ivoclarvivadent.co.nz 0800 764 766 (National Poison Centre) Poisons Hotline (24 hours / 7 days)

**1.5 Emergency phone number:****2. HAZARD(S) IDENTIFICATION****2.1 GHS Classification:-**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

**2.2 GHS Label elements, including precautionary statements****Hazard Pictogram:** | Void.**Signal word:** | Void.**Hazard statements:** | Void.**Precautionary statements:** | Void.**Additional information:**

Not applicable.

**2.3 Other hazards:-**

Dust generation.

Particular danger of slipping on leaked/spilled product.

<b>Results of PBT and vPvB assessment:</b>	<b>PBT:</b>   Not applicable.	<b>vPvB:</b>   Not applicable.
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**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient name	CAS No.	Classification	Concentration
Silver	7440-22-4	None	50-100%
Copper	7440-50-8	None	10-<25%
Non-hazardous ingredients	N/A	N/A	to 100%

**Additional information:**

Non-Gamma-2, spherical 70 % silver alloy amalgam in self-activating capsule.

For the full text of the H-Statements mentioned in this Section, refer to Section 16.

#### 4. FIRST AID MEASURES

##### 4.1 Description of necessary first aid measures:-

###### General advice:

Remove contaminated clothing and shoes immediately and launder thoroughly before reusing.

First aid facilities include first aid rooms and medical centres.

If a risk assessment determines that a first aid room or medical centre is not needed, a rest area within the workplace may be suitable to assist an injured or ill person.

###### If inhaled:

Ensure supply of fresh air.

Remove affected person from the immediate area.

Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

###### In case of skin contact:

Wash off immediately with water.

Generally the product does not irritate the skin.

if skin irritation occurs, consult a doctor.

###### In case of eye contact:

Mechanical effects only.

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart and seek medical advice.

###### If swallowed:

Do not induce vomiting.

Rinse mouth thoroughly with water.

Let plenty of water be drunk in small gulps.

Never give anything by mouth to an unconscious person.

Call a doctor immediately.

##### 4.2 Symptoms caused by exposure:-

Please refer to section 2.2 and section 11.

##### 4.3 Medical attention and special treatment:-

No further relevant information available.

#### 5. FIRE FIGHTING MEASURES

##### 5.1 Suitable extinguishing equipment:-

###### Suitable extinguishing media:

This product is not flammable.

###### Unsuitable extinguishing media:

No further relevant information available.

##### 5.2 Specific hazards arising from the substance/mixture/product:-

No further relevant information available.

##### 5.3 Special protective equipment and precautions for fire fighters:-

###### Special personal protective equipment:

Wear self-contained respiratory protective device.

###### Precautions:

Cool endangered receptacles with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions, protective equipment and emergency procedures:-

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Particular danger of slipping on leaked/spilled product.

Use of suitable equipment (incl PPE) to prevent contamination of skin, eyes, clothing, removal of ignition sources, ventilation, emergency procedures (eg. evacuate, consult expert).

##### 6.2 Environmental precautions:-

Do not allow to enter sewers/surface or ground water.

##### 6.3 Methods and materials for containment and cleaning up:-

Pick up Mechanically.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:-

No special measures necessary if stored and handled as prescribed.  
 Only adequately trained personnel should handle this product or for use in dentistry only.  
 Ensure good ventilation/exhaustion at the workplace.  
 Wash hands before breaks and after work.  
 Do not eat, drink or smoke during work time.  
 Remove soiled or soaked clothing immediately.  
 Keep away from foodstuffs and beverages.

### 7.2 Conditions for safe storage, including any incompatibilities:-

Keep only in the original container.  
 Containers which are opened must be carefully closed and kept upright to prevent leakage.  
 Keep container tightly sealed.  
 Store in cool, dry conditions in well-sealed receptacles.  
 Store receptacle in a well ventilated area.  
 Recommended storage temperature for storage rooms and vessels is 20 - 30°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure control measures:-

#### Occupational exposure limits:

Component	CAS No.	Value	Parameters	Basis
Silver	7440-22-4	Long-term value: 0.1 mg/m <sup>3</sup>		The lists valid during the making were used as basis.
Copper	7440-50-8	Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2*1** mg/m <sup>3</sup> *fume **dusts and mists (as Cu)		

#### Ingredients with biological limit values:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure should be kept to as low as practicable and below the AOES.

### 8.2 Biological monitoring:-

Assess in accordance with exposure limits – please refer to section 8.1.

#### Exposure controls / Personal protective equipment / General protective and hygienic measures:

Usual hygienic measures for dental practice.  
 Wash hands before breaks and at the end of work.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Do not inhale gases/fumes/aerosols.  
 Avoid contact with the eyes and skin.

### 8.3 Control banding:-

Use good industrial hygiene practice and general ventilation.

### 8.4 Engineering controls:-

In case of intensive contact, wear protective gloves (EN 374).  
 Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).  
 Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.  
 Protective gloves shall be replaced immediately when physically damaged or worn.

## 8.5 Individual protection measures include PPE:-

### Eye/face protection:



### Safety glasses

Use tightly fitting safety glasses as per Australian Standard AS 1336 and AS/NZS 1337.

### Skin protection:



### Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

### Material of gloves

Butyl rubber, BR.

Fluorocarbon rubber (Viton).

PVA 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 cannot 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.

Provide for good ventilation of working area (local exhaust ventilation, if necessary).

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

### Respiratory protection:

## 9. PHYSICAL/CHEMICAL PROPERTIES

### 9.1 Information on physical/chemical properties:-

a)	<b>Appearance/Form:</b>	Powder.
b)	<b>Colour:</b>	Grey.
c)	<b>Odour:</b>	Odourless.
d)	<b>Odour threshold:</b>	Not determined.
e)	<b>pH value:</b>	Not applicable.
f)	<b>Melting point/melting range:</b>	Undetermined.
g)	<b>Boiling point/boiling range:</b>	Undetermined.
h)	<b>Flash point:</b>	Not applicable.
i)	<b>Ignition temperature:</b>	Not determined.
j)	<b>Self-igniting:</b>	Product is not self-igniting.
k)	<b>Danger of explosion:</b>	Product does not present an explosion hazard.
l)	<b>Upper/lower flammability or explosive limits:</b>	Lower   Not determined. Upper   Not determined.
m)	<b>Vapour pressure:</b>	Not determined.
n)	<b>Density:</b>	Not determined.

o)	<b>Relative density:</b>	Not determined.
p)	<b>Vapour density:</b>	Not applicable.
q)	<b>Evaporation rate:</b>	Not applicable.
r)	<b>Solubility in/miscibility with water:</b>	Insoluble.
s)	<b>Partition coefficient: n- octanol/water:</b>	Not determined.
t)	<b>Viscosity:</b>	Dynamic   Not applicable. Kinematic   Not applicable.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:-

No further relevant information available.

### 10.2 Chemical stability:-

Stable under normal handling and storage conditions.

#### **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions:-

No dangerous reactions known.

### 10.4 Conditions to avoid:-

No further relevant information available.

### 10.5 Incompatible materials:-

No further relevant information available.

### 10.6 Hazardous decomposition products:-

None under normal conditions of storage and use.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:-

#### **Acute toxicity / Values relevant for classification:**

No further relevant information available.

#### **Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

#### **Serious eye damage/eye irritation:**

Based on available data, the classification criteria are not met.

#### **Respiratory or skin sensitization:**

Based on available data, the classification criteria are not met.

#### **Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

#### **Carcinogenicity:**

Based on available data, the classification criteria are not met.

#### **Reproductive toxicity:**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity - single exposure:**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity - repeated exposure:**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard:**

Based on available data, the classification criteria are not met.

#### **Additional information:**

Alloy powder and mercury are pre-dosed in closed capsules, therefore the danger of exposition to mercury vapours are low.

### 11.2 Information on possible routes of exposure:-

#### **Short Term (Acute) Exposure:**

Based on available data, the classification criteria are not met.

#### **Swallowed:**

Based on available data, the classification criteria are not met.

<b>Eyes:</b>	Based on available data, the classification criteria are not met.
<b>Skin:</b>	Based on available data, the classification criteria are not met.
<b>Inhaled:</b>	Based on available data, the classification criteria are not met.
<b>Long Term (Chronic) Exposure:</b>	Based on available data, the classification criteria are not met.
<b>Swallowed:</b>	Based on available data, the classification criteria are not met.
<b>Eyes:</b>	Based on available data, the classification criteria are not met.
<b>Skin:</b>	Based on available data, the classification criteria are not met.
<b>Inhaled:</b>	Based on available data, the classification criteria are not met.
<b>11.3 Early onset symptoms related to exposure:-</b>	Based on available data, the classification criteria are not met.
<b>11.4 Delayed health effects from exposure:-</b>	Based on available data, the classification criteria are not met.
<b>11.5 Exposure levels and health effects:-</b>	Based on available data, the classification criteria are not met.
<b>11.6 Interactive effects:-</b>	Based on available data, the classification criteria are not met.
<b>11.7 Other:-</b>	Based on available data, the classification criteria are not met.
<b>12. ECOLOGICAL INFORMATION</b>	
<b>12.1 Ecotoxicity:-</b>	No further relevant information available.
<b>12.2 Persistence/degradability:-</b>	No further relevant information available.
<b>12.3 Bioaccumulative potential:-</b>	No further relevant information available.
<b>12.4 Mobility in soil:-</b>	No further relevant information available.
<b>12.5 Other adverse effects:-</b>	No further relevant information available.
	<b>Additional ecological information / General notes:</b>
	Do not allow undiluted product or large quantities if it to reach ground water, water course or sewage system.
<b>12.6 Other adverse effects:-</b>	No further relevant information available.
<b>13. DISPOSAL CONSIDERATIONS</b>	
<b>13.1 Disposal methods:-</b>	Must not be disposed together with household garbage. Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Disposal must be made according to official regulations. Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

**14. TRANSPORT INFORMATION**

<b>UN number ADR / IMDG / IATA:-</b>	Void.
<b>UN proper shipping name or technical name:-</b>	
<b>ADR:</b>	Void.
<b>IMDG, IATA:</b>	Void.
<b>Transport hazard class(es):</b>	Void.
<b>Label:</b>	Void.
<b>Packaging group:</b>	Void.
<b>Environmental hazards:</b>	No.
<b>Special precautions for user:</b>	Not applicable.
<b>Danger code:</b>	Void.
<b>EMS Number:</b>	Void.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
<b>Additional information – ADR:-</b>	Product is not classified as a dangerous good for transport.

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-**

Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.

Standard for the Uniform Scheduling of Medicines and Poisons.

Carcinogen classification under WHS Regulation 2011, Schedule 10.

Notification status in accordance with section 3 and current national legislation.

**National regulations:****Other regulations, limitations and prohibitive regulations:**

The product is a medical device according to the Directive 93/42/EEC.

Product complies with ISO 13897 Dentistry - Amalgam capsules

Product complies with ISO 24234 Dentistry - Dental amalgam

**15.2 Chemical safety assessment:-**

A chemical safety assessment has not been carried out.

HSNO Approval: HSR002948, HSR003077.

EPA NZ Classes of hazardous properties: Class 7

**16. OTHER INFORMATION**

<b>Key to abbreviations/acronyms used in SDS:-</b>	Void.
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**Key literature references/data sources used to compile SDS:-**

Standard EN420:2003 General requirements for protective gloves: disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).

Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

Personal eye protection - Eye and face protectors for occupational applications: safety glasses (Australian Standard AS 1336 and AS/NZS 1337.1:2010).

**Copyright statement:-**

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.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.



IATA: International Air Transport Association.

GHS: Globally Harmonised System of Classification and Labelling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

Flam. Liq. 2: Flammable liquids, Hazard Category 2.

Flam. Liq. 3: Flammable liquids, Hazard Category 3.

Acute Tox. 4: Acute toxicity, Hazard Category 4.

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2.

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2.

Repr. 2: Reproductive toxicity, Hazard Category 2.

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3.

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2.

Asp. Tox. 1: Aspiration hazard, Hazard Category 1.

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