

EU Safety Data Sheet

High Gold Palladium Free Solder
(HGPF)



Date of issue / Reference

23.05.2005 hot

Replaces version of

17.04.2002

Date of printing

23.05.2005 **Sheet No. 1435**

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Company

Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Principality of Liechtenstein

1 Commercial product name and supplier

- 1.1 Commercial product name / Designation **High Gold Palladium Free Solder (HGPF)**
- 1.2 Application / Use Pre solder
- 1.3 Producer Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA
- 1.4 Supplier
- 1.5 TOX emergency number Emergency-Call USA: (716) 691-0010
Emergency-Call LI: +423 / 235 35 35 or 373 40 40

2 Composition

- 2.1 Chemical characterization Solder made of :
51.5 % Au (CAS-Nr. 7440-57-5), 46.0 % Ag (7440-22-4), 1.0 %
Mn (7439-96-7), < 1.0 % Pt, In, Ir, Li, Zn
- 2.2 Hazardous components
- 2.3 Further information None.

3 Hazards identification

Avoid breathing of grinding dust and vapours.
Melted material may cause burns.

4 First aid measures

- 4.1 Eye contact Flush eyes with plenty of water. Call a physician if irritation persists.
- 4.2 Skin contact Melted material presents a special hazard of deep thermal burns. If burn occurs, treat as any thermal burn.
- 4.3 Ingestion Call a physician immediately.
- 4.4 Inhalation Remove to fresh air.
- 4.5 Further information None.

5 Fire-fighting measures

- 5.1 Suitable extinguishing media Not required.
not combustible
- 5.2 Extinguishing media to avoid Do not use direct water stream.

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5.3 Further information None.

6 Accidental release measures Clean up mechanically.
Clean and reuse

7 Handling and storage

7.1 Handling Only adequately trained personnel should handle this product.
Keep out of reach of children.

7.2 Industrial hygiene Usual hygienic measures for dental practice.

7.3 Storage No specific requirements.

7.4 Place of storage

7.5 Fire- and explosion-protection No specific requirements.

8 Exposure controls / Personal protection

8.1 Technical measures Provide adequate local ventilation. Control airborne concentration below the exposure guideline.

8.2 Control of threshold limits Dust and vapors: MAK 0.1 mg/m³

8.3 Personal protective equipment

8.3.1 Respiratory protection If metal fumes are present, use an approved high-efficiency particulate respirator (P3).
In dusty atmospheres, use an approved dust respirator P2.

8.3.2 Hand protection Gloves.

8.3.3 Eye protection Safety goggles.

8.3.4 Other Use only with adequate ventilation.

9 Physical and chemical properties

9.1 Appearance solid

9.2 Colour yellow

9.3 Odour odourless

9.4 Change of physical state Test method:
Melting range 975-1010 °C

9.5 Density

9.6 Vapour pressure not applicable

9.7 Viscosity not applicable

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9.8 Solubility

Solubility in

non soluble

9.9 pH

not applicable

9.10 Flash point

not applicable

9.11 Ignition temperature

not applicable

9.12 Explosion limits

Lower:
Upper:
not applicable

9.13 Further information

None.

10 Stability and reactivity

10.1 Thermal decomposition

None, if used in accordance to instructions.

10.2 Hazardous decomposition products

None, if used in accordance to instructions.

10.3 Hazardous reactions

None, if used in accordance to instructions.

10.4 Further information

None.

11 Toxicological information

11.1 Acute toxicity

Solder: non-cytotoxic, non-mutagenic, non-irritant, non-sensitizer

11.2 Subacute / Chronic toxicity

Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

11.3 Further information

None.

12 Ecological information

No ecological problems to be anticipated if properly handled and used.
nearly insoluble

13 Disposal considerations

Recycling

13.1 EU waste key

17 04 07

14 Transport information

14.1 Transport at land

ADR

RID

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	UN Number	Kemler Number	
	Packing Group		
	Proper shipping name		
14.2	Transport at sea	ADNR	IMDG
	UN Number		
	EMS		MFAG
	Packing Group		
	Proper shipping name		
14.3	Air transport	ICAO / IATA-DGR	
	UN Number		
	Proper shipping name		
	Subsidiary Risk		
	Labels		
	Packing Group		
	Passenger airplane	Packing Instructions	
	Cargo Airplane	max. Packing Instructions	
		max.	
14.4	Further information	Product is not classified for any mode of transportation.	

15 Regulatory information

This product does not require classification according to the criteria of the EC.
The product is a medical device according to the EC-directive 93/42.

15.1 UN number

15.2 National regulations

15.3 EU number

15.4 Hazard symbols

15.5 Hazard designation

15.6 Risk phrases

15.7 Safety phrases

15.8 MAK value

0.1 mg/m³ ml/m³ (ppm)

15.9 BVD classification (CH)

15.10 VbF (D)

15.11 Further information

None.

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16 Other information

Version: 3

Changes: 13.1

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.

This safety data sheet has been generated with the safety database 'ChemManager',
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