EU Safety Data Sheet	Harmony X-Hard	ivoclar :
Date of issue / Reference	02.05.2005 hot	vivadent
Replaces version of	05.10.2001	
Date of printing	02.05.2005 Sheet No. 1393	Page 1 of 5
Company	Ivoclar Vivadent AG, Bendererstr	rasse 2, FL - 9494 Schaan
	Principality of Liechtenstein	
1 Commercial product name a		

1	Commercial product name and supplier		
1.1	Commercial product name / Designation	Harmony X-Hard	
1.2	Application / Use	Crowns and bridges alloy	
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	Dental alloy made of : Au 68.3 % (CAS-Nr. 7440-57-5), Ag 10.0 % (7440-22-4), Cu 13.8 % (7440-50-8), Pt 2.9 % (7440-06-04), Pd 3.6 % (7440-05-03), Zn 1.1 % (7440-66-6), < 1.0 % In, Ir	
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.	
	Further information	None.	

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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.

Harmony X-Hard **EU Safety Data Sheet** Date of issue / Reference 02.05.2005 hot Replaces version of 05.10.2001 02.05.2005 Date of printing Sheet No. 1393 Page 2 of 5 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

odourless 9.3 Odour

Test method: 9.4 Change of physical state

Melting range 900-960 °C 1650-1760 °F Casting temperature 1015-1075 °C 1860-1970 °F

9.5 Density 15.9 g/cm³ (20°C)

9.6 Vapour pressure

not applicable

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9.7	Viscosity	not applicable		
9.8	Solubility Solubility in	non soluble		
9.9	pН	not applicable		
9.10	Flash point	not applicable		
9.11	Ignition temperature	not applicable		
9.12	Explosion limits	not applicable Lower: Upper: not applicable		
9.13	Further information			
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	Alloy: non-cy	totoxic, non-mutagenic, non-i	irritant, non-sensitizer
11.2	Subacute / Chronic toxicity		ets generated from cutting or g tory irritation.	rinding operations may
11.3	Further information	None.		
12	Ecological information	No ecologica used. nearly insolu	l problems to be anticipated if	properly handled and
13	Disposal considerations	Recycling		
13.1	EU waste key	17 04 07		

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14	Transport information					
14.1	Transport at land	ADR		RID		
		UN Number Packing Group	_	Kemler Numb	er	
14.2	Transport at sea	ADNR		IMDG		
		UN Number EMS Packing Grou Proper shipp	=	MFAG		
14.3	Air transport	ICAO / IATA UN Number Proper shipp				
		Subsidiary R Labels Packing Gro				
	Passenger airplane	Packing Instr	ructions			
	Cargo Airplane	max. Packing Instr	ructions			
		max.				
14.4	Further information	Product is no	t classified for any n	node of transpor	tation.	
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 m	l/m³ (ppm)			

15.9 BVD classification (CH)15.10 VbF (D)

15.10 VbF (D) ---

15.11 Further information

None.

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16 Other information Version: 2 Changes: 1.2

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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