Material Safety Data Sheet

Date of issue / Reference 27.09.2007 lise / Version 3

Replaces version of 09.05.2005 hot

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Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan

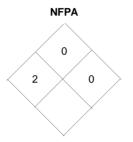
4all

Principality of Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name / Designation

4all



HMIS				
н	2			
F	0			
R	0			
С				

1.2 Application / Use Ceramic alloy

1.3 Producer Ivoclar Vivadent AG, Bendererstrasse 2, 9494 Schaan

Principality of Liechtenstein (FL)

Ivoclar Vivadent, Inc. 1.4 Supplier

175 Pineview Drive, Amherst NY 14228, USA

2785 Skymark Ave., Unit 1 Mississagua, ON L4W4Y3, Canada MSDS prepared by Andejeet Gulati. Tel. No. 716 691-0010

Emergency-Call USA- Infotrac: 1-800-535-5053 1.5 24 Hour Emergency Assistance

Emergency-Call Canada - Canutec: 1-613-996-6666

US: 1-800-533-6825 General MSDS Assistance

Canada: 1-800-263-8182

2 Composition

2.1 Chemical characterization Dental alloy made of:

Ni 61.4 % (CAS-Nr. 7440-02-0), Cr 25.7 % (7440-47-3), Mo 11.0 %

(7439-98-7), Si 1.5 % (7440-21-3), < 1.0 % Mn, Al, C

2.2 Hazardous components

Further information 2.3 None.

3 **Hazards identification** May cause sensitization by inhalation and skin contact. Avoid

breathing of grinding dust and vapours.

Melted material may cause burns.

First aid measures

4.1 Eye contact Flush eyes with plenty of water. Call a physician if irritation persists.

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4.2	Skin contact	Melted material presents a special hazard of deep thermal burns. I burn occurs, treat as any thermal burn.				
4.3	Ingestion	Call a physic	ian immediately.			
4.4	Inhalation	Remove to fr	esh air.			
4.5	Further information	None.				
5	Fire-fighting measures					
5.1	Suitable extinguishing media	not combusti Not required.				
5.2	Extinguishing media to avoid	None.				
5.3	Flash point			Test method:		
		not applicabl	e			
5.4	Ignition temperature	not applicabl	a			
5.5	Explosion limits	Lower:				
		Upper: not applicabl	e			
5.6	Further information	None.				
6	Accidental release measures	Clean up med Clean and re				
7	Handling and storage					
7.1	Handling		ely trained personnel should heach of children.	nandle this product.		
7.2	Industrial hygiene	Usual hygien	ic measures for dental practice	e.		
7.3	Storage	No specific re	equirements.			
7.4	Place of storage					
7.5	Fire- and explosion-protection	Not required.				
8	Exposure controls / Personal protec	tion				
8.1	Technical measures		uate local ventilation. Control posure guideline.	airborne concentration		
8.2	Control of threshold limits	Dust and vap	ors: MAK 0.5 mg/m ³			
8.3	Personal protective equipment					
8.3.1	Respiratory protection	In dusty atmo	ospheres, use an approved dus	t respirator P2.		

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	1 0	If metal fumes are present, use an approved high-efficiency particulate respirator (P3).			
8.3.	2 Hand protection	Gloves.			
8.3.	3 Eye protection	Safety goggle	es.		
8.3.4	4 Other	Use only with adequate ventilation.			
9	Physical and chemical properties				
9.1	Appearance	solid			
9.2	Colour	white			
9.3	Odour	odourless			
9.4	Change of physical state			Test method:	
	Melting range Casting temperature				
9.5	Density	8.4 g/cm ³ (20°	CC)		
9.6	Vapour pressure				
		not applicable			
9.7	Viscosity				
		not applicable			
9.8	Solubility				
	Solubility in water	non soluble			
		non solution			
0.0	**				

9.10 Further information

9.9 pH

10.1 Thermal decomposition None, if used in accordance to instructions.

not applicable

10.2 Hazardous decomposition products None, if used in accordance to instructions.

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10.3	Hazardous reactions	None, if used	in accordar	nce to in	structions.		
10.4	Further information	None.					
11	Toxicological information						
11.1	Acute toxicity	contact.		_	om prolonged, repenic, non-irritant,		
11.2	Subacute / Chronic toxicity	Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.					
11.3	Further information	Nickel: Inhalation of grinding dust and vapours can cause cancer.				n cause cancer.	
12	Ecological information	No ecological problems to be anticipated if properly handled and used. nearly insoluble					
13	Disposal considerations	Recycling					
14	Transport information						
14.1	Transport at land	ADR			RID		
		UN Number Packing Grou Proper shippi	_		Kemler Number	r	
14.2	Transport at sea	ADNR			IMDG		
		UN Number EMS Packing Grou	_		MFAG		
14.3	Air transport	Proper shippi ICAO / IATA UN Number Proper shippi	A-DGR				
	Passenger airplane	Subsidiary Ri Labels Packing Grou	sk ip	 			
	Cargo Airplane	max. Packing Instr					
14.4	Further information	max. Product is not	t classified a	 as a dan	gerous good for tra	ansport.	

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15	Regulatory information	The product is a medical device according to the EC-directive 93/42/EEC. This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada. This product does not require classification as Dangerous Goods.			
15.1	National regulations				
15.2	NFPA Storage				
15.3	Further information	None.			
16	Other information	Version: 3 Changes: 1.5			

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', © ASSiST Applied Software Solutions in Science and Technology AG, Weiherweg 3, CH-4104 Oberwil, Switzerland

91/155/EEC