Material Safety Data Sheet		Special I (SHFWC	ivoclar			
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		Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan Principality of Liechtenstein				
1	Commercial product name and sup	pplier				
1.1	Commercial product name / Designation	Special High-Fusing white Ceramic Solder (SHFWC)				
		NFPA	HMIS			
			H 1			
		0	<b>F</b> 0			
			0 <b>R</b> 0			
			C			
1.2	Application / Use	Pre solder				
1.3	Producer	Ivoclar Vivadent, Inc. 175 Pineview Drive, Amherst NY 14228, USA				
1.4	Supplier	Ivoclar Vivadent, Inc. 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				
1.5	24 Hour Emergency Assistance		Call USA- Infotrac: 1-800-535-5053 Call Canada - Canutec: 1-613-996-6			
	General MSDS Assistance	US: 1-800-533-6825 Canada: 1-800-263-8182				
2	Composition					
2.1	Chemical characterization	Solder made of : 47.0 % Au (CAS-Nr. 7440-57-5), 10.3 % Pd (7440-05-3), 41.0 % Ag (7440-22-4), 1.4 % In (7440-74-6), < 1.0 % B, Ru, Ca, Ti				
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.			p thermal burns. If		

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Dute	or printing	burn occurs, treat as any thermal			
4.0	<b>.</b> .	-	Juin.		
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.			
5 2	Flash asiat		Test method:		
5.3	Flash point	not applicable			
5.4	Ignition temperature				
		not applicable			
5.5	Explosion limits	Lower: Upper:			
		not applicable			
5.6	Further information	None.			
6	Accidental release measures	Clean up mechanically. Clean and reuse			
7	Handling and storage				
7.1	Handling	Only adequately trained personne Keep out of reach of children.	l should handle this product.		
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 below the exposure guideline.	. Control airborne concentration		
8.2	Control of threshold limits	Dust and vapors: MAK 0.1 mg/m <sup>3</sup>			
8.3	Personal protective equipment				
8.3.1	Respiratory protection	If metal fumes are present, use an particulate respirator (P3).	approved high-efficiency		

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		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	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						
9.5 Density						
9.6 Vapour pressure						
	not applicable					
9.7 Viscosity						
	not applicable					
9.8 Solubility						
Solubility in water						
	non soluble					
9.9 рН						
-	not applicable					
9.10 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.

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11	Toxicological information				
11.1	Acute toxicity	Solder: non-c	cytotoxic, no	on-mutagenic, non-irrita	nt, 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			
14	Transport information				
14.1	Transport at land	ADR		RID	
		UN Number Packing Grou Proper shippi	-	Kemler Numl	per
14.2	Transport at sea	ADNR		IMDG	
		UN Number EMS Packing Grou Proper shippi	-	MFAG 	
14.3	Air transport	ICAO / IATA UN Number Proper shippi			
	Passenger airplane	Subsidiary Ri Labels Packing Grou Packing Instr	ıp	  	
	Cargo Airplane	max. Packing Instr			
		max.			
14.4	Further information	Product is no	t classified	as a dangerous good for	transport.
15	Regulatory information	This product does not require classification as Dangerous Goods. 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			

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	Drug Administration and Health Canada.			
15.1	National regulations			
15.2	NFPA Storage			
15.3	Further information	None.		
16	Other information	Version: 5 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.

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