

MATERIAL SAFETY DATA SHEET						
<b>SECTION 1 Identification of the Substance/Preparation and of the Company</b>						
1.1	Product Trade Name	Hybrid Root SEAL <b>Powder</b>				
1.2	Exporter:	Name	Sun Medical Co., Ltd.			
		Address	571-2 Furutaka-cho, Moriyama, Shiga, 524-0044, Japan			
		Telephone	81-77-582-9981			
		Facsimile	81-77-582-9984			
		e-mail	export@sunmedical.co.jp			
<b>SECTION 2 Composition / Information on Ingredients</b>						
		CAS No.	UN No.	Percent	Symbol	R-Phrase
	Preparation	----	----	----	----	----
	Ingredients	CAS No.	UN No.	Percent	Symbol	R-Phrase
	Zirconium oxide	1314-23-4	----	Approx. 80 %	----	----
	silica, amorphous	7631-86-9	----	Approx. 12 %	---	----
	Polymerization initiator	----	----	Approx. 8 %	---	----
<b>SECTION 3 Hazards Identification</b>						
3.1	Emergency overview	Polymer powder with filler. Low hazard for ordinary industrial or commercial handling.				
3.2	Potential health effects					
	Eye	May cause irritation.				
	Skin	Low hazard in ordinary use. May cause irritation. redness.				
	Ingestion	Low hazard in ordinary use.				
	Inhalation	Low hazard in ordinary use.				
	Effects of Long-term or Repeated Exposure	Not known.				
<b>SECTION 4 First-Aid Measures</b>						
4.1	Eye	Immediately flush with flowing water for at least 15 minutes. Get medical attention.				
4.2	Skin	Flush with soap and plenty of water. Get medical attention if irritation develops or persists.				
4.3	Ingestion	Swallowing a small amount will not cause significant harm.				
4.4	Inhalation	No specific treatment is necessary by inhalation of a small amount. If exposed to excessive levels of dusts, remove to fresh air and get medical attention if cough or other symptoms develop.				
<b>SECTION 5 Fire-Fighting Measures</b>						
5.0	Flammable properties	Stable powder.				
5.1	Flash point	N/A		5.2 Autoignition temp.	Not known	
5.3	Flammable limit	Not applicable.		5.4 Suitable extinguishing media	Foam, dry chemical, carbon dioxide, dry sand or water.	
5.5	Hazardous decomposition products	Toxic gasses such as carbon monoxide, may be released in a fire.		5.6 Special protective equipment	During emergency conditions, over- exposure to thermal decomposition products may cause health hazard. Self-contained breathing apparatus should be worn.	

SECTION 6 Accidental Release Measures			
6.1 Personal precaution	For skin protection wear impervious protective gloves. For eye protection use safety goggle.		
6.2 Environmental precautions	This material is not expected to be significantly hazardous to the environment.		
6.3 Methods for cleaning-up	In case material is released or spilled, sweep up and place spill in a chemical waste container. Flush spill area with water.		
SECTION 7 Handling and Storage			
7.1 Handling	Observe normal warehouse handling procedures. Protect against physical damages.		
7.2 Storage	Store in a cool, dry and dark place, preferably in the refrigerator.		
SECTION 8 Exposure Controls / Personal Protection			
8.1 Engineering measures			
Ventilation	General and/or local ventilation should be sufficient.		
Other protective equipment	Eye wash station near work area.		
8.2 Personal protection			
Respiratory protection	None required during ordinary use of this product.		
Hand protection	Use impervious protective gloves to prevent skin contact.		
Eye protection	Use safety glasses.		
Skin protection	Use impervious protective gloves to prevent skin contact.		
Exposure guideline	Not known.		
SECTION 9 Physical and Chemical Properties			
9.1 Appearance	White powder	9.2 Odor	Faint
9.3 pH	Not applicable	9.4 Vapor density	Not applicable
9.5 Boiling point	Not applicable	9.6 Solubility in water	Nil
9.7 Specific gravity	Apparent density: ca.0.6 g/mL		
SECTION 10 Stability and Reactivity			
10.1 Stability	Stable under ordinary conditions of use and storage.		
10.2 Conditions to avoid	High temperature (above 30°C), high humidity and direct light.		
10.3 Incompatibility (materials to avoid)	Strong oxidizing agents.		
10.4 Hazardous decomposition products	Carbon dioxide and carbon monoxide may form when heated to decomposition.		
10.5 Hazardous polymerization	Will not occur.		
SECTION 11 Toxicological Information			
11.1 Health hazards (immediate, delayed, acute, chronic)	Contact with eyes and skin may cause irritation.		
11.2 Toxicity	Not known		
11.3 Mutagenicity	Not known		
11.4 Carcinogenicity	(NTP) No, (IARC) No (Group 3: amorphous silica)		

SECTION 12 Ecological Information	
12.1 General	This material is not expected to be significantly hazardous to the environment.
12.2 Mobility	Not known.
12.3 Degradability	Not known.
12.4 Accumulation	Not known.
12.5 Ecotoxicity	Not known.
12.6 Other adverse effects	Not known
SECTION 13 Disposable Considerations	
13.1 Danger in disposal	Should be handled as a hazardous waste.
13.2 Disposal method	Incinerate in accordance with all applicable environmental control regulations, or landfill in an industrial landfill which has approval to receive such wastes.
SECTION 14 Transport Information	
14.1 Precautions for transport	----- Observe normal care for transportation of sophisticated health care materials. Cover from rain, direct sunlight, heat and contaminating materials.
14.2 UN	-----
14.3 IMDG	-----
14.4 ICAO/IATA	-----
SECTION 15 Regulatory Information	
15.1 RTECS	zirconia ZH8800000 silica VV7330000
15.2 EU Classification	-----
SECTION 16 Other Information	
16.1	Prepared / Revised in November 2007 by Sun Medical Co., Ltd.
16.2	This Product is for dental professional use only.
16.3	The information above is believed to be accurate. However, Sun Medical Co., Ltd. makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Users must take their own investigations to determine the suitability of the information and the Product for their particular purposes.