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SECTION I Identific	ation of the substance/mixture and of the company/undertaking
1.1. Product identifier	Sure-Seal Root
1.2. Relevant identified use	es of the substance or mixture and uses advised against
Recommended use : Perr	manent obturation of the root canal
Restriction on use : For u	use only dental professionals
1.3. Details of the supplier	of the safety data sheet
Manufacturer	Sure Dent Corporation
Address	#809, 52, Sagimakgol-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea
Telephone / Fax	+82-31-737-4720 / +82-31-737-4724
E-mail	suredent@suredent.com
1.4. Emergency telephone	number +82-31-737-4720
SECTION II Hazard	s Identification
2.1. Classification of the su	bstance or mixture
Classification according	g to Regulation (EC) No 1272/2008
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
2.2. Label elements	
Labeling according to l	Regulation (EC) No 1272/2008
The product is classifie	d and labeled according to the CLP regulation.
Hazard pictograms	
$\wedge$	
GHS07	
Signal word Warn	ing
Hazard-determining co	omponents of labeling
Zirconium oxide	
Calcium sodium phospi	hosilicate
Hazard Statements	
H315 Causes skin irrita	ation
H319 Causes serious ey	ye irritation
Precautionary statemen	nts
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and
	Immediately get medical attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

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P501	Dispose of contents/container in accon regulations.	rdance with local/regional/national/international		
Additional information	n			
As this product is a me	dical device in the meaning of Directive 93/42/EEC	and intended for use by the end consumer and is		
applied in an invasive	manner of body contact, it is exempt from the labelin	ng requirements according to regulation 1272/2008.		
2.3. Other hazards				
<b>Result of PBT and v</b>	PvB assessments			
PBT: Not applicable	le.			
vPvB: Not applicat	ble.			
SECTION III Com	position/information on ingredients			
3.2. Chemical characteri	zation: Mixtures			
<b>Description:</b> Mixture	of substances listed below with nonhazardous addition	ons.		
Dangerous compone	ents:			
CAS: 1314-23-4	Zirconium oxide	10-40%		
	Skin Irrit. 2, H315 ; Eye Irrit.2, H319			
CAS: 359684-27-8	Calcium sodium phosphosilicate	1-10%		
	Not applicable			
Additional information	on: For the wording of the listed hazard phrases refer	r to section16.		
SECTION IV First	aid measures			
4.1. Description of first aid	1 measures			
Eye Contact : Immediately rinse eye with a large amount of water, get medical attention.				
Skin Contact : Wash immediately with soap and water.				
Inhalation : Remove with fresh air. If not breathing, give artificial respiration or give oxygen by professional.				
Ingestion : Give a large amount of water, do not induce vomiting and seek medical attention.				
4.2. Most important symptoms and effects, both acute and delayed				
Skin Contact – Skin in	ritation, drying, cracking or fissuring of the skin.			
Eye contact – Severe	irritation and/or inflammation.			
Inhalation – Irritation to the moist mucus membranes of the nose, throat and upper respiratory system.				
Ingestion – Internal dis	scomfort or irritation to the digestive tract.			
4.3. Indication of any im-	mediate medical attention and special treatment n	needed		
No further relevant in	formation available.			
SECTION V Firefig	ghting measures			
5.1. Extinguishing media				
Suitable extinguishin	g media			
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.				
Unsuitable extinguish	ning media			

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There is no restriction on the type of extinguisher. 5.2. Special hazards arising from the substance or mixture No further relevant information available. 5.3. Advice for firefighters Protective equipment: Respiratory protective device. 5ECTION VI Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures See section 8 6.2. Environmental precautions No special measures required. 6.3. Methods and material for containment and cleaning up Wash spilled area with large amounts of water and dry thoroughly. 6.4. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.			
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See Section 7 for information on safe handling.			
See Section 8 for information on personal protection equipment.			
See section 13 for disposal information.			
SECTION VII Handling and storage			
7.1. Precautions for safe handling			
For dental use only.			
Avoid contact with skin and eyes.			
Information about fire and explosion protection: No special measures required.			
7.2. Conditions for safe storage, including any incompatibilities			
Avoid exposure to intense light and elevated heat, store in a cool place.			
7.3. Specific end use(S)			
No further relevant information available.			
SECTION VIII Exposure controls/personal protection			
8.1. Control parameters			
Ingredients with limit values that require monitoring at the workplace.			
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the			
workplace.			
Additional information: The lists valid during the making were used as basis.			
8.2. Exposure controls			
Personal protective equipment			
General protective and hygienic measured: The usual precautionary measures are to be adhered to when handling chemicals.			
Respiratory protection: Not required.			
Protection of hand: Protective gloves			

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Material of glove									
The selection of the suitable gloves does not	only depend on the material, but also on further marks of quality and varies								
from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove									
material cannot be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye/face protection: Safety glasses with side shield. Body protection: Protective work clothing									
					SECTION IX Physical and chemical properties				
					9.1. Information on basic and chemical properties				
					Appearance				
					Form Paste Color White				
Odor	Odorless								
рН	12.2								
Melting point/freezing point	Undetermined								
Initial boiling point and boiling range	Undetermined								
Flash point	Not applicable								
Evaporation rate	Not applicable								
Flammability(solid, gas)	Not applicable								
Upper/lower flammability or explosive limits	Not applicable								
Vapor pressure	Not applicable								
Vapor density	Not applicable								
Relative density	2.0 g/cm3								
Solubility in water	Soluble								
Partition coefficient: n-octanol/water	Not applicable								
Auto-ignition temperature	Not applicable								
Decomposition temperature	Not applicable								
Viscosity	Not applicable								
Explosive properties	Not applicable								
Oxidizing properties	Not applicable								
0.2. Other information									
No further relevant information available.									
SECTION X Stability and reactivity									
10.1. Reactivity									
Contact with water will result in hydration of the	product and produces (caustic) calcium hydroxide.								
10.2. Chemical stability									
Stable under recommended storage conditions.									

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10.3. Possibility of hazardous reactions				
No dangerous reactions known.				
10.4. Conditions to avoid				
Avoid unintentional contact with water to prevent premature setting/curing; contact will result in hydration of the product and				
produces (caustic) calcium hydroxide.				
10.5. Incompatible materials				
Incompatible with acids, ammonia, ammonia nitrate, ammonium salts, aluminum metal and chlorine.				
10.6. Hazard decomposition products				
Decomposition will not spontaneously occur.				
Contact with water will result in hydration of the product and produces (caustic) calcium hydroxide				
SECTION XI Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity : Not classified as a toxic substance.				
Skin corrosion/irritation : May cause skin irritation.				
Serious eye damage/irritation : May cause serious eye irritation.				
Respiratory or skin sensitization : No allergic potential after uses and good tolerance by subcutaneous tissues.				
Germ cell mutagenicity : No mutagenic effect.				
Carcinogenicity : Ingredients not listed as carcinogens.				
<b>Reproductive toxicity</b> : Not available.				
STOT-single exposure : Not classified as a toxic substance.				
STOT-repeated exposure : Not classified as a toxic substance.				
Aspiration hazard : Not available.				
Additional toxicological information :				
When used and handled according to specifications, the product does not have any harmful effects according to our experience				
and the information provided to us.				
SECTION XII Ecological information				
<b>12.1.</b> Aquatic toxicity : No further relevant information available.				
<b>12.2. Persistence and degradability</b> : No further relevant information available.				
12.3. Bioaccumulative potential : No further relevant information available.				
12.4. Mobility in soil : No further relevant information available.				
12.5. Result of PBT and vPvB assessments : Not applicable.				
<b>12.6. Other adverse effects</b> : No further relevant information available.				
SECTION XIII Disposal consideration				
<b>13.1. Waste treatment methods</b> Dispose of contents/container to in accordance with local/regional/national/international regulations.				
1 · · · · · · · · · · · · · · · · · · ·				

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SECTION VIV Transport information				
SECTION XIV Transport information				
14.1. UN number				
DOT, ADR, ADN, IMDG, IATA : Void				
14.2. UN proper shipping name				
DOT, ADR, ADN, IMDG, IATA : Void				
14.3. Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA : Void				
14.4. Packing group				
DOT, ADR, IMDG, IATA : Void				
14.5. Environmental hazards				
Marine pollutant : No				
14.6. Special precautions for user				
Not applicable.				
14.7. Transport in bulk according to Annex $ {ar I} $ of Marpol and the IBC Code				
Not applicable.				
UN "Model Regulation": Void				
SECTION XV Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the sub	bstance or mixture			
- SARA Section 355(extremely hazardous substances): None of the ingredients is listed.				
- SARA Section 313(specific toxic chemical listings): None of the ingredients is li	isted.			
- TSCA(Toxic Substances Control Act): Medical devices are exempted from TSC	Α.			
- The product is a medical device according to the Directive 93/42/EEC.				
- The product is classified as a medical device under US and Korea regulations an	nd has been reviewed by the US Food and			
Drug Administration and Korea Food and Drug Administration.				
15.2. Chemical safety assessment				
A Chemical safety assessment has not been carried out.				
SECTION XVI Other information				
This MSDS is taken from raw material MSDS and manufacturer's knowledge and ex	perience. It is intended to describe our			
products from the point of view of safety requirements and is not intended to guarantee any particular properties.				
Abbreviations and acronyms :				
CAS : Chemical Abstract Service CLP : EC Regul	lation 1272/2008			
DOT : US Department of Transportation				
ADR : European Agreement concerning the International Carriage of Dangerous O	Goods by Road			
ADN : European Agreement concerning the International Carriage of Dangerous	Goods by Inland			
IMDG : International Maritime Code for Dangerous Goods IATA : International Maritime Code for Dangerous Goods	ional Air Transport Association			
PBT : Persistent, Bioaccumulative and Toxic vPvB : very Pers	sistent and very Bioaccumulative			