Axis SybronEndo

Sealapex Canal Sealant Base

1. Identification of the material and supplier

<u>Names</u>	
Product name	: Sealapex Canal Sealant Base
ADG	: UN3077
Manufacturer	: SybronEndo Endodontics Unit 10, 112-118 Talavera Road North Ryde, NSW 2113 Australia Telephone no.: 1 800 643 603 Email general queries: kerraust.orders@sybrondental.com Email technical queries: peter.green@sybrondental.com
Emergency telephone number	: 61 401 690 670 (24 hours)
<u>Uses</u>	
Area of application	: Professional applications.
Material uses	: Dental product: Endodontic Obturation Systems and Fill Products
Product type	: Paste.

2. Hazards identification

Classification	: Xi; R41, R37/38 N; R50
Risk phrases	 R41- Risk of serious damage to eyes. R37/38- Irritating to respiratory system and skin. R50- Very toxic to aquatic organisms.
Safety phrases	 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
Statement of hazardous/ dangerous nature	: HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Health effects are based on the uncured material.

3. Composition/information on ingredients

Mixture : Yes.		
Ingredient name	CAS number	Concentration
calcium oxide	1305-78-8	30-60
Zinc oxide (dust)	1314-13-2	<10
zinc distearate	557-05-1	<10
titanium dioxide	13463-67-7	<10
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Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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4. First-aid measures

First-aid measures	
Inhalation	: No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.
Skin contact	: No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
Eye contact	 No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
Protection of first-aiders	 In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Advice to doctor	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

: Use an extinguishing agent suitable for the surrounding fire.
: None known.
: In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
No specific fire or explosion hazard.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides
 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
: 2Z

6. Accidental release measures

Personal precautions	:	Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely
Environmental precautions	:	Low release. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods for cleaning up		
Small spill	:	Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
Large spill	1	Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

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7. Handling and storage

Handling	 No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose of in a safe manner.
Storage	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Combustible liquid	Not applicable.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits	
calcium oxide	Safe Work Australia (Australia, 4/2013).	
Zinc oxide (dust)	TWA: 2 mg/m ³ 8 hours. Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours. Form: Dust STEL: 10 mg/m ³ 15 minutes. Form: Fume TWA: 5 mg/m ³ 8 hours. Form: Fume	
zinc distearate	Safe Work Australia (Australia, 4/2013). TWA: 10 mg/m ³ 8 hours.	
titanium dioxide	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.	
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
Exposure controls		
Engineering measures	: No special measures are required for small quantities under normal and intended conditions of product use.	
Hygiene measures	: No special measures are required for small quantities under normal and intended conditions of product use.	
Eyes	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.	
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
Respiratory	No special measures are required for small quantities under normal and intended conditions of product use.	
Skin	: No special measures are required for small quantities under normal and intended conditions of product use.	
Environmental exposure controls	: No special measures are required for small quantities under normal and intended conditions of product use.	
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9. Physical and chemical properties

Physical state	: Solid. [Viscous. Paste.]
Colour	: Off-white.
Odour	: Odourless.
Boiling point	: Not available.
Melting point	: Not available.
Vapour pressure	: Not available.
Relative density	: 1.3 [Water = 1]
Flash point	: Not available.
Flammable limits	: Not available.
Vapour density	: Not available.
рН	: Not available.
Viscosity	: Not available.
Auto-ignition temperature	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability	The product is stable.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will no Under normal conditions of storage and use, hazardous polymerisation w occur.	
Conditions to avoid	No specific data.	
Materials to avoid	No specific data.	
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition p should not be produced.	products

11. Toxicological information

LD50 Oral

Potential acute health effects	<u>S</u>				
Inhalation	 Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. 				
Ingestion	: Irritating to mouth, throat and	: Irritating to mouth, throat and stomach.			
Skin contact	: Irritating to skin.				
Eye contact	: Severely irritating to eyes. Ris	Severely irritating to eyes. Risk of serious damage to eyes.			
Acute toxicity					
Product/ingredient name	Result	Species	Dose	Exposure	
zinc distearate	LC50 Inhalation Dusts and mists	Rat	>200 mg/l	1 hours	

Conclusion/Summary : Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.

Rat

>10 g/kg

Potential chronic health effects Chronic toxicity Conclusion/Summary : Not available. Irritation/Corrosion

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11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation	
Zinc oxide (dust)	Eyes - Mild irritant	Rabbit	-	24 hours 500	-	
	Skin - Mild irritant	Rabbit	-	milligrams 24 hours 500 milligrams	-	
Conclusion/Summary	: Not available.			-		
<u>Sensitiser</u>						
Conclusion/Summary						
Skin	: Kligman score: Grade I (weak sensitizer)				
Carcinogenicity						
Conclusion/Summary	: Not available.					
Mutagenicity						
Conclusion/Summary	: No mutagenic effect.					
Teratogenicity						
Conclusion/Summary	: Not available.					
Reproductive toxicity						
Conclusion/Summary	: Not available.					
Chronic effects	: No known significant effects or critical hazards.					
Carcinogenicity	: No known significant effects or critical hazards.					
Mutagenicity	: No known significant effe	ects or critical haz	ards.			
Teratogenicity	No known significant effects or critical hazards.					
Developmental effects	: No known significant effe	ects or critical haz	ards.			
Fertility effects	: No known significant effects or critical hazards.					
ver-exposure signs/sympto	oms					
nhalation	: Adverse symptoms may respiratory tract irritation coughing		ing:			
Ingestion	: No specific data.					
Skin	: Adverse symptoms may include the following: irritation redness					
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness					
arget organs	: Contains material which digestive system, gastroi cornea.					

12. Ecological information

- **Ecotoxicity** Aquatic ecotoxicity
- : Very toxic to aquatic organisms.









12. Ecological information

Product/ingredient name	Result	Species	Exposure
calcium oxide	Chronic NOEC 100 mg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	46 days
Zinc oxide (dust)	Acute EC50 0.042 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
titanium dioxide	Acute EC50 5.83 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
	Chronic NOEC 0.984 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours

Conclusion/Summary : Not available.

Other ecological information

Persistence/degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
calcium oxide	-	2.34	low	
Zinc oxide (dust)	-	60960	high	
zinc distearate	1.2	-	low	
titanium dioxide	-	352	high	

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

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Methods of disposal
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: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. Transport information

International transport regulations

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Sealapex Ca	inal Sealant E	Base				
14 . Tran	sport info	rmation				
Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. O.S. (zinc oxide)	9	111	A CONSTRUCTION OF CONSTRUCTUON	The product is not regulated as a dangerous good when transported by road or rail in either an IBC, or in other container types if \leq 500 kg. The environmentally hazardous substance mark is not required wher transported in sizes of \leq 5 L or \leq 5 kg.
						Hazchem code 2Z
						<u>Special provisions</u> 179, 274, 331, 335, AU01
ADR	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. O.S. (zinc oxide)	9	111		The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Hazard identification</u> <u>number</u> 90
						<mark>Limited quantity</mark> 5 kg
						<u>Special provisions</u> 274, 335, 601
						Tunnel code (E)
IMDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. O.S. (zinc oxide). Marine pollutant (zinc oxide)	9	111		The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> (EmS) F-A, S-F
						<u>Special provisions</u> 274, 335, 966, 967
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Sealapex Canal Sealant Base						
14. Transport information						
ΙΑΤΑ	UN3077	Environmentally hazardous substance, solid, n.o.s. (zinc oxide)	9			The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo <u>Aircraft</u> Quantity limitation: 400 kg Packaging instructions: 956 Cargo Aircraft Only Quantity limitation: 400 kg Packaging instructions: 956 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y956 Special provisions A97, A158, A179

PG* : Packing group

15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

No listed substance

Australia inventory (AICS)	: All components are listed or exempted	
EU Classification	: Xi; R41, R37/38 N; R50/53	

16. Other information

Person who prepared the MSDS	: IHS
Date of previous issue	: No previous validation.
Date of issue/ Date of revision	: 4/7/2015.
Version	: 1

Indicates information that has changed from previously issued version.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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