# SAFETY DATA SHEET

Sealapex Xpress Base and Catalyst

### Section 1. Identification

Product name : Sealapex Xpress Base and Catalyst

Other means of identification

: Not available.

**Product type** 

: Paste.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Dental product: Endodontic Obturation Systems and Fill Products

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 (with hours of

: 61 401 690 670 (24 hours)

operation)

: peter.green@sybrondental.com

e-mail address of person responsible for this SDS

### Section 2. Hazards identification

HSNO Classification : 8.2 - CORROSIVE TO DERMAL TISSUE - Category C

8.3 - CORROSIVE TO OCULAR TISSUE - Category A

6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED

EXPOSURE) - Category B

9.1 - AQUATIC ECOTOXICITY - Category B

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 57.5%

Health effects are based on the uncured material.

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is not classified as a dangerous good according to criteria in New Zealand Standard 5433:2007 Transport of Dangerous Goods on Land.

#### **GHS label elements**

Signal word : Danger

**Hazard statements** : Causes severe skin burns and eye damage.

May cause damage to organs.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face protection. Wear protective clothing.

Avoid release to the environment. Do not breathe vapour. Do not eat, drink or

smoke when using this product. Wash thoroughly after handling.

Response : Collect spillage, Immediately call a POISON CENTER or doctor/physician, IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing.

Storage : Store locked up.

Version : 1 Date of issue/Date of revision : 12/30/2014

### Section 2. Hazards identification

: Dispose of contents and container in accordance with all local, regional, national **Disposal** 

and international regulations.

**Symbol** 







result in classification

Other hazards which do not : Causes digestive tract burns.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : Not available.

identification

**CAS** number/other identifiers

**CAS** number : Not applicable.

**EC** number : Mixture. **Product code** : Not available.

Ingredient name	%	CAS number
dibismuth trioxide N-ethyl-o(or p)-toluenesulphonamide calcium oxide isobutyl salicylate titanium dioxide Silane, dichlorodimethyl-, reaction products with silica	>=25 - <35 >=15 - <20 >=10 - <20 >=1 - <3 >=1 - <5 >=1 - <5	1304-76-3 8047-99-2 1305-78-8 87-19-4 13463-67-7 68611-44-9
zinc oxide Rosin, oligomers	>=0.25 - <2.5 >=1 - <5	1314-13-2 65997-05-9

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.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

#### **Description of necessary 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.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Ingestion May cause burns to mouth, throat and stomach. Corrosive to the digestive tract.

Causes burns.

**Skin contact** Causes severe burns.

Eye contact : Causes serious eye damage.

Over-exposure signs/symptoms

Version Date of issue/Date of revision: 12/30/2014



### Section 4. First-aid measures

Inhalation : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

**Skin**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Eyes** : Adverse symptoms may include the following:

pain watering redness

#### Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments

: Not available.

Notes to physician

: 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.

**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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
halogenated compounds
metal oxide/oxides

Hazchem code

: Not available.

Special precautions for fire-

fighters

: 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.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: 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 and material for containment and cleaning up

Version : 1 Date of issue/Date of revision : 12/30/2014

### Section 6. Accidental release measures

**Small spill** 

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
calcium oxide	NZ OSH (New Zealand, 2/2013).
	WES-TWA: 2 mg/m <sup>3</sup> 8 hours.
titanium dioxide	NZ OSH (New Zealand, 2/2013).
	WES-TWA: 10 mg/m <sup>3</sup> 8 hours. Form: The
	value for inhalable dust containing no
	asbestos and less than 1% free silica.
zinc oxide	NZ OSH (New Zealand, 2/2013).
	WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	WES-STEL: 10 mg/m³ 15 minutes. Form:
	Fume
	WES-TWA: 10 mg/m <sup>3</sup> 8 hours. Form: The
	value for inhalable dust containing no
	asbestos and less than 1% free silica.

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.

Appropriate engineering controls

: 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.

#### **Individual protection measures**

**Hygiene measures** 

: No special measures are required for small quantities under normal and intended conditions of product use.

Respiratory protection

: No special measures are required for small quantities under normal and intended conditions of product use.

**Hand protection** 

: 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.

Version : 1 Date of issue/Date of revision : 12/30/2014

# Section 8. Exposure controls/personal protection

**Eye protection** 

: 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection** 

No special measures are required for small quantities under normal and intended conditions of product use.

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Paste.] Colour : Off-white. Odour Odourless. **Odour threshold** : Not available. pН Not available. **Melting point** : Not available. **Boiling point** : Not available. Flash point : Not available. **Burning rate** : Not applicable. **Burning time** : Not applicable. **Evaporation rate** : Not available. Flammability (solid, gas) : Not available. : Not available.

Lower and upper explosive (flammable) limits

Vapour pressure : Not available.
Vapour density : Not available.
Relative density : 1.3 [Water = 1]

**Solubility** : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

SADT : Not available.

Viscosity : Not available.

Aerosol product

Type of aerosol : Not applicable.

Heat of combustion : Not available.

Ignition distance : Not applicable.

Enclosed space ignition - : Not applicable.

Time equivalent

**Enclosed space ignition -**

**Deflagration density** 

: Not applicable.

Flame height : Not applicable.
Flame duration : Not applicable.

Version : 1 Date of issue/Date of revision : 12/30/2014.



## Section 10. Stability and reactivity

**Chemical stability** 

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Possibility of hazardous

reactions

: The product is stable.

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: No specific data.

Incompatible materials

Hazardous decomposition

products

: No specific data.

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Under normal conditions of storage and use, hazardous polymerisation will not

occur.

# **Section 11. Toxicological information**

#### Information on the likely routes of exposure

Inhalation

: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

: May cause burns to mouth, throat and stomach. Corrosive to the digestive tract.

Causes burns.

Skin contact

: Causes severe burns.

**Eye contact** 

: Causes serious eye damage.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: No specific data.

Ingestion

: Adverse symptoms may include the following:

stomach pains

**Skin contact** 

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Eye contact

: Adverse symptoms may include the following:

pain watering redness

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
dibismuth trioxide	LD50 Oral	Rat	4 g/kg	-
N-ethyl-o(or p)-	LD50 Oral	Rat	2250 mg/kg	-
toluenesulphonamide				
isobutyl salicylate	LD50 Oral	Rat	1560 mg/kg	-
Silane, dichlorodimethyl-,	LD50 Oral	Rat	>5000 mg/kg	-
reaction products with silica				
Rosin, oligomers	LD50 Dermal	Rabbit	>2500 mg/kg	-

**Conclusion/Summary** 

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
N-ethyl-o(or p)- toluenesulphonamide	Eyes - Mild irritant	Rabbit	-	100 Micrograms	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### **Sensitisation**

Not available.

Version: 1 Date of issue/Date of revision: 12/30/2014.



## **Section 11. Toxicological information**

#### Potential chronic health effects

**General** : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

: No known significant effects or critical hazards. Skin contact

**Eye contact** : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

: No mutagenic effect.

**Chronic toxicity** 

Not available.

**Carcinogenicity** 

Not available.

Mutagenicity

Not available.

**Conclusion/Summary** 

**Teratogenicity** 

Not available.

Reproductive toxicity

Not available.

#### **Specific target organ toxicity**

Name	3.5	Route of exposure	Target organs
Silane, dichlorodimethyl-, reaction products with silica	Category B	Inhalation	Not determined

#### **Aspiration hazard**

Not available.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	5624.1 mg/kg
Dermal	223254.5 mg/kg

# **Section 12. Ecological information**

**Ecotoxicity** 

: This material is toxic to aquatic life with long lasting effects.

#### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
calcium oxide	Chronic NOEC 100 mg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	46 days
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 -	48 hours

12/30/2014.

Date of issue/Date of revision:

Version

## **Section 12. Ecological information**

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		Juvenile (Fledgling, Hatchling, Weanling)	
	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
zinc oxide	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

#### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
calcium oxide	-	2.34	low
titanium dioxide	-	352	low
zinc oxide	-	60960	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

: 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.

# **Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
New Zealand Class	Not regulated.	-	-	-		-
ADG Class	Not regulated.	-	-	-		-
UN Class	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

PG\*: Packing group

Version : 1 Date of issue/Date of revision : 12/30/2014.



## Section 15. Regulatory information

**New Zealand Inventory of** 

Chemicals (NZIoC)

: Not determined.

**HSNO Approval Number HSNO Group Standard** 

: Not available. : Not available.

**HSNO Classification** 

: 8.2 - CORROSIVE TO DERMAL TISSUE - Category C 8.3 - CORROSIVE TO OCULAR TISSUE - Category A

6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED

EXPOSURE) - Category B

9.1 - AQUATIC ECOTOXICITY - Category B

**Australia inventory (AICS)** 

Safety, health and environmental regulations specific for the product

: Not determined.

: No known specific national and/or regional regulations applicable to this product

(including its ingredients).

### Section 16. Other information

#### **History**

Date of issue/Date of

revision

: 12/30/2014.

Date of previous issue

: No previous validation.

Version Prepared by

: 1 : IHS

Key to abbreviations

: ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

**UN = United Nations** 

References

: GHS - Globally Harmonized System of Classification and Labeling of Chemicals

International transport regulations

Indicates information that has changed from previously issued version.

#### **Notice to reader**

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.

Version Date of issue/Date of revision: 12/30/2014