

## MATERIAL SAFETY DATA SHEET

### SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CalApex  
**Intended use:** Dental product: Endodontic Obturation Systems and Filling Product  
**Company Name:** Prevest Denpro Limited  
**Address:** EPIP, Bari Brahmana, Jammu-181133 India  
**Tel:** 8899074151/ + 91-1923-222774/ 222779  
**Fax No:** +91-1923-222774  
**Email:** customercare@prevestdenpro.com  
**Web:** www.prevestdenpro.com  
**Emergency Contact No:** 1800-180-7172

### SECTION 2 : COMPOSITION /INFORMATION ON INGREDIENTS

**Chemical characterization :**
**BASE :**

Components	CAS no.	Amount
n-Ethyl o,p-toluenesulfonamide	8047-99-2	30-60 %
Calcium oxide	1305-78-8	30-60 %
Zinc Oxide	1314 – 13 – 2	1-5 %
Zinc stearate	557-05-1	1-5 %
Fumed silica	68909-20-6	1-2 %

**CATALYST:**

Components	CAS no.	Amount
Ethylene glycol salicylate	87 – 28 – 5	10-30 %
Zinc Oxide	1314 – 13 – 2	5-10 %
Tricalcium phosphate	7758-87-4	20-30 %
Fumed silica	68909-20-6	1-2 %

### SECTION 3 : HAZARD IDENTIFICATION

Hazardous Ingredients

This product contains no hazardous components as defined in the OSHA Hazard Communication Standard ( 29 CFR 1910.1200 ).

Routes of Entry:

**Skin:** May be irritating to the skin. Repeated contact may cause allergic dermatitis.

**Eyes:** May be irritating to the eyes.

**Inhalation:** Prolonged exposure may cause drowsiness.

**Ingestion:** Consult physician

Carcinogenicity - NTP: No

IARC Monographs: No OSHA Regulated Carcinogen: No

#### SECTION 4: FIRE AND MEASURES

- Flash Point (Method Used): N/D
- **Flammable Limits:** LEL: N/A UEL: N/A
- **Extinguishing Media:** Carbon dioxide, foam, dry chemical.
- **Special Fire Fighting Procedures:** None
- **Unusual Fire and Explosion Hazards:** None

#### SECTION 5 : FIRE FIGHTING MEASURES

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials:  
carbon dioxide

- carbon monoxide
- nitrogen oxides
- sulfur oxides
- phosphorus oxides
- metal oxide/oxides

#### SECTION 6 : ACCIDENTAL MEASURES

- **Skin:** Wash with soap and water.
- **Eyes:** Flush eyes with water for at least 15 minutes.
- **Inhalation:** Remove to fresh air.
- **Ingestion:** Consult physician.

#### SECTION 7 : HANDLING AND STORAGE

**Steps to be taken in case material is released or spilled:** Wipe up with paper towels and dispose of in a suitable container.

**Waste Disposal Method:** Dispose of in accordance with local, state and federal regulations.

**Precautions to be taken in handling and storing:** Store in a cool, dry place. Wash thoroughly after handling.

**Other precautions:** Use according to directions mentioned in IFU

**SECTION 8 : EXPOSURE CONTROLS/PROTECT**

**Respiratory Protection (Specify Type):** N/A

**VENTILATION:**

**Local Exhaust:** N/A

**Mechanical (General):** Should be sufficient

**Protective Gloves:** Gloves are recommended.

**Eye Protection:** Safety glasses

**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure

**Exposure limit:**

N-ethyl-o(or p)-toluenesulphonamide	None Established
Calcium oxide	2 mg/m3 TWA NIOSH REL
Zinc oxide	15 mg/m3 CEIL NIOSH REL (dust)
	5 mg/m3 TWA NIOSH REL (dust and fumes)
	10 mg/m3 STEL NIOSH REL (fume)
Zinc distearate	5 mg/m3 TWA NIOSH REL (respirable fraction)
	10 mg/m3 TWA NIOSH REL (total)

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point:** N/E

**Specific Gravity (H<sub>2</sub>O = 1):** ~1.3

**Vapor Pressure (mm Hg):** N/A

**Melting Point:** N/A

**Vapor Density (AIR = 1):** N/A

**Solubility :** shall not exceed 3.0% by mass

**Reactivity in Water:** N/A

**Appearance**

**Base :** white flowable paste

**Catalyst:** light brown flowable paste

**SECTION 10 : STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** None known

**Incompatibility (Material to Avoid):** N/A

**Hazardous Decomposition Products:** N/A

**Hazardous Polymerization:** Will not occur

**SECTION 11 : TOXICOLOGICAL INFORMATION**

- 11.1 Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eyes:** Irritating effect.

Product/ingredient name	Result	Species	Dose	Exposure
N-ethyl-o(or p)-toluene sulphonamide isobutyl salicylate	LD50 Oral	Rat	2250 mg/kg	-
	LD50 Oral	Rat	1560 mg/kg	-
N-ethyl-o(or p)-toluene sulphonamidezinc oxide	Eyes - Mild irritant	Rabbit	100 Micrograms 24 hours	-
	Eyes - Mild irritant	Rabbit	500 milligrams 24 hours	-
	Skin - Mild irritant	Rabbit	500 milligrams	-

**SECTION 12: ECOLOGICAL INFORMATION**

**Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Calcium oxide	-	2.34	low
zinc oxide	-	60960	high

Ingredient name	Exposure limits
Calcium oxide	<b>ACGIH TLV (United States, 6/2013).</b> TWA: 2 mg/m <sup>3</sup> 8 hours.
zinc oxide	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.
	<b>NIOSH REL (United States, 10/2013).</b> TWA: 2 mg/m <sup>3</sup> 10 hours.
	<b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.
	<b>NIOSH REL (United States, 10/2013).</b> CEIL: 15 mg/m <sup>3</sup> Form: Dust TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Dust and fumes STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume

**SECTION 13: DISPOSAL INFORMATION**
**Disposal methods**

The generation of waste should be avoided or minimized 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**

	<b>DOT Classification</b>	<b>IMDG</b>	<b>IA TA</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-
<b>Transport hazard class(es)</b>	-	-	-
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	No.	No.	No.
<b>Additional information</b>	-	-	-

**SECTION 15 : REGULATORY INFORMATION**

**TSCA 8(a) PAIR:** Siloxanes and Silicones, di-Me, reaction products with silica

**United States inventory (TSCA 8b):** All components are listed or exempted.

**Clean Water Act (CWA) 307:** zinc oxide; zinc distearate

**HMIS (Hazardous Material Identification System) Rating:**

H1 F0 R0

**[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;**

**2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard**

**SECTION 16 : OTHER INFORMATION**

ATE = Acute Toxicity Estimate

BCF = Bio concentration Factor

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

- **Department issuing MSDS:** Regulatory affairs
- Contact: [research@prevestdenpro.com](mailto:research@prevestdenpro.com)
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