

K073218

**510(k) SUMMARY**

JAN - 7 2008

DENTSPLY International  
Susquehanna Commerce Center West  
221 West Philadelphia Street, Suite 60  
York, PA 17405-0872

CONTACT: Helen Lewis  
DATE PREPARED: NOV 08 2007  
TRADE OR PROPRIETARY NAME: MTA ADVANCED MATERIAL  
CLASSIFICATION NAME: Root canal filling resin 872.3820  
PREDICATE DEVICES: White MTA Material K011009

DEVICE DESCRIPTION: MTA ADVANCED MATERIAL a powder and liquid root canal treatment system. The combination of the powder and liquid creates a colloidal gel that solidifies to form a strong impermeable barrier to seal off pathways of communication between the root canal system and external surfaces of the tooth.

INTENDED USE: MTA ADVANCED MATERIAL is indicated for use in dental procedures that contact the pulp, dentin, or periradicular tissues:

- Repairing the periradicular tissues in procedures such as root-end filling, repair of internal or external root resorption, iatrogenic perforation repair, apexification, pulpectomy, or
- For protecting injured pulps, pulp-capping, pulpotomies, or cavity liner

TECHNOLOGICAL CHARACTERISTICS: All of the components found in MTA ADVANCED MATERIAL have been used in legally marketed devices and/or were found safe for dental use. MTA ADVANCED MATERIAL has been evaluated and passed biocompatibility testing for cytotoxicity, mutagenicity, and sensitization.

We believe that the prior use of the components of MTA ADVANCED MATERIAL in legally marketed devices, the performance data provided, and the biocompatibility data provided support the safety and effectiveness of MTA ADVANCED MATERIAL for the indicated uses.

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JAN - 7 2008

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Ms. Helen Lewis  
Director of Corporate Compliance and Regulatory Affairs  
DENTSPLY International  
Susquehanna Commerce Center  
221 West Philadelphia Street, Suite 60  
York, Pennsylvania 17405-0872

Re: K073218  
Trade/Device Name: MTA Advanced Material  
Regulation Number: 21 CFR 872.3820  
Regulation Name: Root Canal Filling Resin  
Regulatory Class: II  
Product Code: KIF  
Dated: November 8, 2007  
Received: November 20, 2007

Dear Ms. Lewis:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

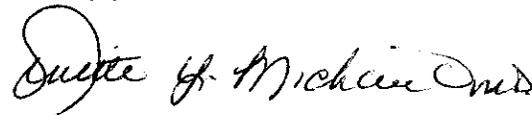
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Chiu Lin, Ph.D.  
Director  
Division of Anesthesiology, General Hospital,  
Infection Control and Dental Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

# INDICATIONS FOR USE STATEMENT

510(k) Number (if known): 1K073218

Device Name: MTA ADVANCED MATERIAL

### Indications for Use:

MTA ADVANCED MATERIAL is indicated for use in dental procedures that contact the pulp, dentin, or periradicular tissues:

- Repairing the periradicular tissues in procedures such as root-end filling, repair of internal or external root resorption, iatrogenic perforation repair, apexification, pulpectomy, or
- For protecting injured pulps, pulp-capping, pulpotomies, or cavity liner

Prescription Use X  
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use \_\_\_\_\_  
(21 CFR 801 Subpart C)

**(PLEASE DO NOT WRITE BELOW THIS LINE—CONTINUE ON ANOTHER PAGE IF NEEDED)**

Concurrence of CDRH, Office of Device Evaluation (ODE)

*Susan Raner*

Director, General Health  
Dental Devices

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