



Product # 9003

Issue Date:

February 22, 2013

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MATERIAL SAFETY DATA SHEET

SECTION 1. Product and Company Identification

PRODUCT NAME: MTA POWDER

COMMON OR CHEMICAL NAME: N/A

MANUFACTURED BY:

Medicept UK Ltd.

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SECTION 2. Composition/Information on Ingredients

<i>Hazardous Ingredients:</i>	<i>C.A.S. Number</i>	<i>Lowest Exposure Limits</i>	<i>%</i>
3Ca·SiO ₂ —Tricalcium Silicate	12168-85-3	4 mg/m ³	<50
Bi ₂ O ₃ – Bismuth Oxide	1304-76-3	No TLV assigned.	<30
2CaO·SiO ₂ —Dicalcium Silicate	10034-77-2	4 mg/m ³	<20
CaSO ₄ – Calcium Sulfate	7778-18-9	5 mg/m ³	<5
SiO ₂ —Silica	14464-46-1	0.05 mg/m ³	<0.5

SECTION 3. Hazards Identification

For potential health hazards: SEE Section 11 below

Potential Health Hazards: Dust may irritate throat and respiratory system and cause coughing. Frequent inhalation of the dust over a long period of time increases the risk of developing lung diseases. Dust or splashes from the mixture may cause permanent eye damage. Dust has an irritating effect on moist skin. Prolonged contact may cause burns.

Medical Conditions Aggravated by Exposure: Pre-existing upper respiratory and lung diseases may be aggravated by inhalation.

Carcinogenicity (IARC, NTP): None known

Potential Environmental Effects: Powder with moisture hardens into a solid mass that is not biodegradable.

SECTION 4. First Aid Measures

Inhalation: Move individual away from exposure into fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Keep patient warm. Get medical attention.

Skin Contact: Immediately flush skin with plenty of cool soapy water. Remove contaminated clothing and wash contact areas thoroughly.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes, while holding eyelids apart. Remove contact lenses. Do not use eye ointments. Get medical attention immediately, even if no symptoms develop.

Ingestion: Flush mouth with water and drink water or milk. Do not induce vomiting. Get medical attention.

SECTION 5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam, carbon dioxide, or dry chemical

Extinguishing Media which should not be used: None.

Special exposure hazards from combustion products: Fumes of silicon dioxide, carbon dioxide, and carbon monoxide.

Special protective equipment for fire fighters: Standard. Avoid inhalation of smoke; use a respirator and protective suit.

SECTION 6. Accidental Release Measures

Personal Precautions: Avoid contact with skin or eyes. Avoid inhalation. Wash hands with soap and water if contact occurs.

Environmental Precautions: Dispose of in accordance with all federal, state, and local regulations.

Methods for Cleaning Up: Wipe up spills with moist rags or vacuum immediately to prevent dust of material from being scattered, and discard in trash.

SECTION 7. Handling and Storage

Handling Precautions: Powder is caustic. Use gloves for handling. Keep out of eyes or contact with mucosal tissues.

In case of contact: Wash and rinse with water

Safe Storage Conditions: Store kit at room temperature 77°F (25°C), not refrigerated

Other Restrictions or Recommendations: Keep bottle tightly closed; material is hydrophilic.

SECTION 8. Exposure Controls/Personal Protection

Respiratory Protection & Ventilation: Use in a well ventilated area.

Protective Clothing or Equipment: Wear safety glasses, latex or nitrile gloves, and dust mask or respirator

Unusual Work/Hygienic Practices: Wear gloves as per universal precautions in dentistry. Wash your hands after use. No eating, drinking, or smoking while handling this product. Wash clothing with spill.

Special Instructions: Do not use water to remove dust as this causes setting

SECTION 9. Physical and Chemical Properties

Appearance: Fine, yellowish powder

Odor: None.

pH: ~12 mixed with water

Boiling Point/Range: >1800°C

Melting Point/Range: >700°C

Flash Point: Not applicable.

Auto-Ignition Temperature: Not applicable.

Freezing Point: >800°C

Explosive Limits in Air: Not applicable.

Oxidizing Properties: None.

Vapor Pressure (mm Hg @ 20°C): ~0

Vapor Density (Air=1): Not applicable.

Specific Gravity (H₂O =1): ~3.7

Solubility in Water: 0.1 to 1%

Reactivity in Water: Not applicable

Other Data: None.

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SECTION 10. Stability and Reactivity

Stability: Stable

Conditions of Instability: Moisture will degrade the powder. Keep the bottle closed.

Incompatibility with Various Substances: Not applicable.

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Conditions to Avoid: Keep dry when stored to avoid reaction with water and setting.

SECTION 11. Toxicological Information

(Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data) Estimated from contents of components:

Potential Acute Health Effects: Possible toxicity effect of powder on moist tissue.

SECTION 12. Ecological Information

No ecological damage or impact anticipated when handled as indicated.

SECTION 13. Disposal Considerations

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

Other Disposal Information: Do not spread dust. When mixed with water, a solid, non-biodegradable mass will form.

SECTION 14. Transport Information

UN Classification: Not applicable.

Identification: Not applicable.

SECTION 15. Regulatory Information

Federal Regulations: Hazard Code:Xn (irritant)

Components are considered to be hazardous material under the Hazardous products Act as defined by the Controlled Products regulations (Class D2A, E-Corrosive Materials) and subject to the requirements of WHMIS.

Risk phrases:

R37/38 – Irritating to respiratory system and skin.

R41 – Risk of serious damage to eyes.

Safety phrases:

S22 – Do not breathe dust.

S24 – Avoid contact with skin.

S25 – Avoid contact with eyes.

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36 – Wear suitable protective clothing

S45 – In case of accident, or if you feel unwell, seek medical advice immediately

U.S. FDA Dental Device: Class II product

EC Medical Device Directive: Class IIa product

SECTION 16. Other Information

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources that we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product or used in a way other than recommended by the Company, this MSDS information may not be applicable.

