

Safety Data Sheet

1. PRODUCT AND MANUFACTURER INFORMATION

A. Product Name DIA-ROOT BIO MTA

B. Recommended use of the product and restrictions on its use

- Recommend use of the product Pulp capping

- Restrictions on use of the product **For Dental Professional Use Only**

C. Supplier Information

(For imported goods, enter the information of the domestic supplier that can be contacted urgently)

- Name of Company DiaDent Group International

- Address 16, Osongsaengmyeong 4-ro, Osong-Eup, Heungdeok-Gu,
Cheongju-Si, Chungcheongbuk-Do,
Republic of Korea

- Emergency contact number 82-43-266-2315

D. Importer Information

- Name of Company **DiaDent Group International Inc.**

- Address **#380 - 8210 Ross Street
Vancouver, BC, Canada, V5X 0L1**

- Emergency contact number **1-604-451-8851**

- Email **diadent@diadent.com**

2. HAZARDS IDENTIFICATION

A. Type of Hazard-Danger Skin corrosion / Skin irritation : Class2

Serious eye damage / eye irritation : Class2

Respiratory sensitization : Class1

Skin sensitization : Class1

B. Warning sign items including preventive action statements

2. HAZARDS IDENTIFICATION

- Pictorial symbol



- Signal words

Danger(GHS07, GHS08)

- Hazard Statement

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H334 Inhalation may cause allergic reactions, asthma or shortness of breath

H335 May cause respiratory irritation.

- Precautionary Statements

- Prevention

P261 Avoid inhalation of (dust, fume, gas, mist, vapor, spray).

P264 Wash thoroughly after handling.

P272 Do not take contaminated clothing out of the workplace.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P284 In case of inadequate ventilation wear respiratory protection.

- Response

P302+P352 If on skin : Wash with plenty of water.

P304+P340 If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 If in eyes : Rinse cautiously with water for several minutes. If possible, remove the contact lenses. Keep washing.

P332+P313 If skin irritation occurs : Get medical advice / attention.

P333+P313 If skin irritation or erythema develops, get medical advice / attention.

P337+P313 If eye irritation persists, get medical advice / attention.

P342+P311 If respiratory symptoms occur, get medical attention.

P362+P364 Take off contaminated clothing and wash before reuse.

2. HAZARDS IDENTIFICATION

- Storage	N/A
- Disposal	P501 Dispose of contents container (according to the description in the related regulation).
C. Other hazards	
- Calcium silicate	
Health	1
Fire	0
Responsive	0
- Zirconium dioxide	
Health	0
Fire	1
Responsive	0

3. COMPOSITION/INFORMATION ON INGREDIENT

Names of ingredients	Synonym	CAS No.	Content (%)
Calcium silicate	-	-	50~80
Zirconium dioxide	Zirconium dioxide	1314-23-4	20~50
etc.	-	-	> 10

4. FIRST AID MEASURES

A. When entered into eyes	If in eyes : Rinse cautiously with water for several minutes. If possible, remove the contact lenses. If eye irritation persists, get medical advice / attention.
B. When contacted with skin	If skin irritation or erythema develops, get medical advice / attention. In case of contact with material, rinse skin and eyes immediately with running water for at least 20 minutes.
C. When inhaled	Move to fresh air. If you do not feel well, consult a doctor.

4. FIRST AID MEASURES

	If breathing is difficult, give oxygen and give artificial respiration.
D. When eaten	Rinse mouth and consult a doctor if you are not feeling well.
E. Other medical precautions	Ensure medical personnel are aware of the material and take protective measures

5. FIRE FIGHTING MEASURES

A. suitable (improper) extinguishing agent	Use alcohol foam, carbon dioxide or water spray. Use dry sand or earth for asphyxiation.
B. Specific hazards arising from chemicals	Pyrolysis or combustion may produce irritating and very toxic gases while burning. Some can burn but do not ignite easily.
C. Special protective equipment and precautions for firefighters	Rescuers should wear appropriate protective equipment. Extinguish area to keep safe

6. ACIDENTAL RELEASE MEASURES

Avoid inhalation and wipe up spills.

7. HANDLING AND STORAGE

Safe handling and storage	Store in a dry, cool place (relative humidity below 60%). Store at 2 ~ 27 °C / 35 ~ 80 °F. Use sanitary gloves and tools at the treatment site. Do not eat or inhale this product. Only use by professionals.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Appropriate engineering management	In case of generating dust, fume or mist, ventilate to keep air pollution below exposure standard.
B. Personal protective equipment	Wear respiratory protection and gloves.

9. PHYSICAL/CHEMICAL PROPERTIES

A. External	
- Composition	Powder
- Color	White
B. Odor	Odorless
C. Odor Threshold	No data
D. pH	> 10
E. Melting point / Freezing point	No data
F. Initial boiling point and boiling point range	No data
G. Flash point	No data
H. Evaporation rate	No data
I. Flammability (solid, gas)	No data
J. Upper / lower limit of ignition or explosion	No data
K. Vapor pressure	No data
L. Solubility	0.95%
M. Vapor density	No data
N. Specific gravity	about 0.65
O. n-octanol / water partition coefficient	No data
P. Natural ignition temperature	No data
Q. Decomposition temperature	No data
R. Viscosity	No data
S. Molecular Weight	No data

10. STABILITY AND REACTIVITY

A. Chemical Stability and Possibility of Hazardous Reaction	No data
B. Conditions to avoid	Avoid direct moisture exposure.

11. TOXICOLOGICAL INFORMATION

A. Oral mucosa irritation	No significant clinical signs was observed(hamster).
B. Maximization Sensitization	No significant clinical signs was observed.
C. Acute systemic toxicity	No significant clinical signs was observed(Mouse).

12. ECOLOGICAL INFORMATION

No ecological problems to be anticipated if properly handled and used.

13. DISPOSAL CONSIDERATION

A. Disposal methods	Dispose of contents container (according to the description in the related regulation).
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14. TRANSPORT INFORMATION

A. UN No. DOT, ADR, IMDG, IATA	Not a regulated substance.
B. Proper shipment name DOT, ADR, IMDG, IATA	Not a regulated substance.
C. Risk level in transportation DOT, ADR, IMDG, IATA	Not a regulated substance.
D. Container level DOT, ADR, IMDG, IATA	Not a regulated substance.
E. Marine pollutants	No data
F. Special safety measures required or required by the user to know regarding transport or means of transport	Protect from water. Product is not classified as a dangerous good for transport.

15. REGULATORY INFORMATION

- **The product is a medical device according to the Medical Device Regulation (MDR) (EU 2017/745)**
- This product is classified as a medical device under KFDA, **FDA. Health Canada**
- This product does not require classification as Dangerous Goods.

16. OTHER INFORMATION

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.

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| A. Date of initial preparation | Aug. 30, 2019 |
| B. Number of revisions and date of final revision | |
| - Number of revisions | 04 |
| - Date of final revision | Nov. 20, 2025 |
| C. Others | Not applicable. |

○ The information and recommendations are taken from sources (raw material SDS(s) and manufacturer's knowledge) believed to be accurate and reliable. It is intended to describe the product according to various safety requirements; however, the manufacturer makes no warranty with respect to the accuracy and completeness of the information or the suitability of the recommendation and assumes no liability to any user thereof.