

DIA-ROOT BIO MTA

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 Use by specialists

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

2. Hazards idenfitication

A. Type of harzard • 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

Pictorial symbol



GHS07 GH

Signal words Danger

Hazard statements 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

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.

storage	N/A
Disposal	P501 Dispose of contents container (according to the description in the related regulation).
Calcium silicate	
Health	1
Fire	0
Responsive	0
Zirconium dioxide	
Health	0
Fire	1
Responsive	0
Hydrophobic amorphous fumed silica	
Health	1
Fire	0
Responsive	0
Citric acid	
Health	3
Fire	1
Responsive	0
Hydroxypropyl methylcellulose	
Health	1
Fire	1
Responsive	0

3. Composition/information of ingredien	nt		
Names of ingredients	Synonym	CAS No.	Content(%)
Calcium silicate	Silicic acid (H ₂ SIO ₃), Calcium salt (1:1)	-	50~80
Zirconium dioxide	Zirconium dioxide	1314-23-4	20~50
Citric acid	2-Hydroxy-1,2,3-propanetricarboxylic acid	77-92-9	0.01~5
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Hydrophobic amorphous fumed silica	68909-20-6	0.1~10
Hydroxypropyl methylcellulose	Cellulose, 2-hydroxylpropyl methyl ether	9004-65-3	0.01~5
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 least 20 minutes.	with running wa	iter for at
C. When inhaled	Move to fresh air. If you do not feel well, consult a doctor.		
	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. A suitable (improper) extinguishing agent Use alcohol foam, carbon dioxide or water spray.

Use dry sand or earth for asphyxiation.

Pyrolysis or combustion may produce irritating and very toxic gases while burning. B. Specific hazards arising from chemicals

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. Aciental 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 \sim 27 °C / 35 \sim 80 °F.

Use sanitary gloves and tools at the treatment site.

Do not eat or inhale this product.

Only use by professionals.

8. Exposure controls/personal protection

In case of generating dust, fume or mist, ventilate to keep air pollution below exposure A Appropriate engineering management

Powder

B. Personal protective equipments Wear respiratory protection and gloves.

9. Physical/chemical properties

Q. Decomposition temperature

R. Viscosity

S. Molecular Weight

A. Appearance

Appearance Color White B. Odor Odorless C. Odor threshold No data D. pH (in water) > 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 No data 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

No data

No data

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

Oral mucosa irritation No significant clinical signs was observed(hamster).

Maximization Sensitization No significant clinical signs was observed.

Acute systemic toxicity No significant clinical signs was observed (Mouse).

12. Environmental impact

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

13. Disposal considerations

Dispose of contents container (according to the description in the related A. Disposal method

regulation).

14. Information necessary for transportation

A. UN No. Not a regulated substance.

DOT, ADR, IMDG, IATA

B. Proper shipping name Not a regulated substance.

DOT, ADR, IMDG, IATA

C. Hazard class in trasportation Not a regulated substance.

DOT, ADR, IMDG, IATA

D. Container grade Not a regulated substance.

DOT, ADR, IMDG, IATA

E. Marine Pollutant No data

F. Special safeguards you need or need to know about transportation or transportation

Protect from water.

Product is not classified as a dangerous good for transport.

15. Legal Regulation

This product is classified as a medical device by the National Food and Drug Administration (KFDA).

This product does not need to be classified as dangerous.

16. Other notes

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.

A. Original Date Aug. 30, 2019

B. Number of revisions and date of last revision

Revision count 0 times Last revision date Aug. 30, 2019

C. Other

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; howwever, 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.