

DIA-ROOT BIO Sealer

Safety Data Sheet

1. PRODUCT AND MANUFACTURER INFORMATION

A. Product name DIA-ROOT BIO Sealer

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

Recommend use of the product Root canal filler, endodontic, sealer

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 Serious eye damage / eye irritation : Class2

B. Warning sign items including preventive action statements

Pictorial symbol

GHS07

Signal words Danger

Hazard statements H302 Harmful if swallowed

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

Precautionary Statements

Prevention P270 Do not eat, drink or smoke when using this product.

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

Response P301+P312 If swallowed, get medical attention.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. If possible,

remove the contact lenses. Keep washing.

P330 Rinse mouth.

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

Storage Store in a dry, cool place (15-25 °C/ 59-77 °F, relative humidity below 60%).

Disposal P501 Dispose of contents container (according to the description in the related

regulation).

Calcium silicate	
Health	1
Fire	0
Responsive	0
Calcium aluminate	
Health	1
Fire	N/A
Responsive	0
Ytterbium trifluoride	
Health	N/A
Fire	N/A
Responsive	N/A
Zirconium dioxide	. 47.
Health	0
Fire	1
Responsive	0
Hydrophobic amorphous fumed silica	
Health	1
Fire	0
Responsive	0
Hydroxypropyl methylcellulose	
Health	1
Fire	1
Responsive	0
Polyethylene glycol 400	
Health	0
Fire	1
Responsive	0
Polyethylene glycol 200 Health	0
Fire	1
Responsive	0
Polyoxyethylene (20) sorbitan monooleic acid	
Health	0
Fire	1
Responsive	0
Light mineral oil	0
Health Fire	0 1
Responsive	0
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3. Composition/information of ingredient			
Names of ingredients	Synonym	CAS No.	Content(%)
Calcium silicate	Silicic acid (H ₂ SIO ₃), Calcium salt (1:1)	-	0~5
Calcium aluminate	Calcium aluminate	65997-16-2	20~50
Ytterbium trifluoride	Ytterbium trifluoride	13760-80-0	10~40
Zirconium dioxide	Zirconium dioxide	1314-23-4	0~10
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Hydrophobic amorphous fumed silica	68909-20-6	0.01~5
Hydroxypropyl methylcellulose	Cellulose, 2-hydroxylpropyl methyl ether	9004-65-3	0.1~10
Polyethylene glycol 400	Polyehtylene glycol 400	25322-68-3	5~20
Polyethylene glycol 200	Polyehtylene glycol 200	25322-68-3	0~10
Polyoxyethylene (20) sorbitan monooleic acid	Sorbitan, mono-9-octadekenate, poly (oxy-1,2-ethanedil) DERIVS.,	9005-65-6	0~10
Light mineral oil	White mineral oil (PETROLEUM)	8042-47-5	0~5
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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.

Get urgent medical attention

B. When contacted with skin In case of contact with material, rinse skin and eyes immediately with running water for at

least 20 minutes.

Prevent spread of contaminated areas in case of minor skin contact

Move to fresh air. If you do not feel well, consult a doctor.

C. When inhaled

Keep warm and stable

If swallowed, get medical attention.

D. When eaten Rinse mouth.

In case of inhalation or inhalation of substances, do not use artificial respiration by oral cavity

method and use appropriate respiratory medical equipment.

5. Fire fighting measures

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.

Container may explode when heated Some can burn but do not ignite easily.

Inflammable, the material itself does not burn, but may decompose on heating to

produce corrosive / toxic fumes

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 15~25°C/59~77°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

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

standard.

No data

B. Personal protective equipments Wear respiratory protection and gloves.

9. Physical/chemical properties

A. Appearance

C. Odor threshold

Appearance Paste
Color White

B. Odor Odorless

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 0.95% L. Solubility M. Vapor density No data N. Specific gravity 2.5 O. n-octanol / water partition coefficient No data P. Natural ignition temperature No data No data Q. Decomposition temperature 57cP(at 25°C) R. Viscosity S. Molecular Weight No data

10. Stability and reactivity

stability and possibility of No data A. Chemical

hazardous reaction

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).

Bacterial reverse mutation No significant clinical signs was observed. Mammalian erythrocyte micronucleus No significant clinical signs was observed. In vitro mammalian chromosomal aberration No significant clinical signs was observed. Pyrogen No significant clinical signs was observed.

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 Dec. 02, 2019

B. Number of revisions and date of last revision

Revision count 0 times

Last revision date Dec. 02, 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; 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.