SAFETY DATA SHEET

1. INDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Gutta Percha Points
Product Code: 334, 344, 193

Application: Filling for root canals

Manufacturer: DiaDent Group International
16 Osongsaengmyeong 4-ro, Osong-eup, Heungdeok-gu,
Cheongju-si, Chungcheongbuk-do, 28161, Republic of Korea

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Date: 19.06.2019 V7.0

2. HAZARD IDENTIFICATION

A. GHS Classication

Serious Eye Damage/Eye Irritation: Category 2
Specic Target Organ Toxicity (Single Exposure): Category 3, Respiratory System

B. GHS Label elements, including precautionary statements

Pictograms

Signal Words: Caution
Hazard Statement(s): H319 Causes severe eye irritation
Precautionary Statement(s):
Prevention: P264 Wash hands thoroughly after handling the product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response: P304 + P340 IF INHALED: Remove victim 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. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/attention.

	Storage:	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
	Disposal:	P501 Dispose of contents/container according to the related regulations.

C. Other hazards (according to the NFPA Rating System)

Health	1
Fire	1
Reactivity	0

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	Common Name	CAS No.
ZINC OXIDE	ZINC WHITE	1314-13-2
BaSO4	SULFURIC ACID, BARIUM SALT (1:1)	7727-43-7
Stearic Acid	1-HEPTADECANECARBOXYLIC ACID	57-11-4
Gutta Percha	-	-

4. FIRST AID MEASURES

A.	**Eyes:**	Get medical aid immediately if discomfort or irritation persists.
B.	**Skin:**	Consult a physician immediately if you feel discomfort.
C.	**Inhalation:**	Remove patient from exposure to fresh air immediately. Administer approved oxygen supply if breathing is difficult and get medical aid immediately.
D.	**Ingestion**	Seek immediate medical help.
E.	**Notes to Physicians:**	Have a comprehensive understanding on the chemical and treat symptomatically.

5. FIRE FIGHTING MEASURES

A. Appropriate Extinguishing Media

To extinguish a fire caused by or related to this chemical, use alcohol-resistant foam, Carbon Dioxide (CO2), or water spray. Use dry sand or soil to smother the fire.

B. Specific hazard arising from the chemical

Smoke (fumes) can be produced due to pyrolysis or combustion process.

C. Special Protective Equipment & Precautions for Firefighters

Firefighters should wear appropriate protective equipment. Stay a safe distance away from the fire while extinguishing. If not dangerous, remove the container from the fire. To dispose of fire water, pour it into a spacious dug lot and make sure it is not spilled or scattered outward. If not dangerous, remove the container from the fire.

6. ACCIDENTAL RELEASE MEASURES

A. Protective equipment & Emergency procedures

Give special attention to chemical materials and conditions that must be avoided.

B. Environmental precautions

Prevent the inflow of this product to waterways, drains, basements, and con-ned spaces.

C. Purification / Removal Method

Dispose of the product as medical waste.

7. HANDLING AND STORAGE

A. Safe handling

Follow all prevention measures on the MSDS/labels. Handle and store with care.
Give special attention to chemical materials and conditions that must be avoided.
Wear personal protective equipment while handing the product.

B. Conditions for Safe Storage

Keep away from humidity.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

A.	**Exposure Limits for Chemical Substances & Biological Exposure Limits**	N/A
B.	**System Design (Proper Engineering Controls)**	N/A
C.	**Personal protective equipment**	
	Respiratory protection	N/A
	Eye protection	N/A
	Hand protection	N/A
	Skin & body protection	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

A.	Appearance	
	Physical state	Solid (conical shape)
	Colour	Pink
B.	Odour	N/A
C.	Odour threshold value	N/A
D.	pH	N/A
E.	Melting point/Freezing point	100℃
F.	Initial boiling point & Boiling range	N/A
G.	Flash point	N/A
H.	Evaporation rate	N/A
I.	Flammability (solid, gas)	N/A
J.	Maximum / minimum of the flammable or explosive limits	N/A
K.	Vapor pressure	N/A
L.	Solubility	N/A
M.	Vapor density	N/A
N.	Relative density	2.7 g/㎤
O.	Partition coefficient: n-Octanol/water	N/A
P.	Autoignition temperature	N/A
Q.	Decomposition temperature	N/A
R.	Viscosity	N/A
S.	Molecular mass	N/A

10. STABILITY AND REACTIVITY

A.	Chemical stability & possibility of hazardous reactions:	N/A
B.	Conditions to avoid:	Direct light, excessive heat, and moisture
C.	Incompatible materials:	Inflammable materials & reducing materials
D.	Hazardous decomposition or by product:	Smoke (fumes) can be produced due to pyrolysis or combustion process.

11. TOXICOLOGY INFORMATION

A. Possible routes of exposure: N/A

B. Information on harmful health effects

(Symptoms related to the physical, chemical and toxicological characteristics)

Acute toxicity	
Oral	N/A
Dermal	N/A
Inhalation	N/A
Skin corrosion/Irritation	N/A
Serious Eyes damage/Irritation	May cause irritation to the eyes
Respiratory sensitization	N/A
Skin sensitization	N/A
Carcinogenicity	
Industrial Safety and Health Act	N/A
Notification of the Ministry of Employment and Labour	N/A
IARC	N/A
OSHA	N/A
ACGIH	N/A
NTP	N/A
EU CLP	N/A
Germ cell mutagenicity	N/A
Reproductive Toxicity	N/A
Specific Target Organ Toxicity (Single Exposure)	Inhalation causes respiratory tract irritation
Specific Target Organ Toxicity (Repeated Exposure)	N/A
Aspiration Toxicity	N/A

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

Fish	N/A
Shellfish	N/A
Birds	N/A

B. Persistence & Degradability

Persistence	N/A
Degradability	N/A

C. Bioaccumulative potential

Accumulation	N/A
Biodegradability	N/A

D. Mobility in soil N/A

E. Other adverse effects N/A

13. DISPOSAL CONSIDERATIONS

A. Product Disposal

If stated in the Wastes Control Act, dispose of the contents and container accordingly.

B. Precautions for Disposal

Dispose of the content according to the related regulations.

14. TRANSPORT INFORMATION

A. UN No.

Classification information on transportation of hazardous materials not available.

B.	Proper shipping name	N/A
C.	Hazard class	N/A
D.	Packing Group	N/A
E.	Marine pollutant	N/A

F. Any special precautions which a user should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises (Special precautions which a user needs to be aware of or needs to comply outside their premises with in connection with transport or conveyance either within or outside their premises)

Emergency procedures in case of re	N/A
Emergency procedures in case of spill/leak	N/A

15. REGULATORY INFORMATION

A.	Regulations according to the Industrial Safety and Health Act	N/A
B.	Regulations according to the Toxic Chemicals Control Act	N/A
C.	Regulations according to the Safety Control of Dangerous Substances Act	N/A
D.	Regulations according to the Wastes Control Act	N/A

E. Other regulations according to domestic and foreign laws
- Follow the regulations of the KFDA (Korea Food & Drug Administration).
- Follow the regulations of the Directive 93/42/EEC and 2007/42/EC.

16. FURTHER INFORMATION

A. Source of Data: International Uniform Chemical Information Database (IUCLID) (http://ecb.jrc.it/esis) (Appearance)
Corporate Solution from Thomson Micromedex (http://csi.micromedex.com) (M. Specific Gravity)

B. Date of Creation: 18/ 06 / 2014

C. Revision No & Revision Date:

Revision Number:	1
Date of Last Revision:	02 / 01 / 2018

E. Other Information

The information and recommendations are taken from sources (raw material MSDS(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.