DiaDent®
Passion for Innovation

Gutta Percha Obturator
Material Safety Data Sheet

1. PRODUCT AND MANUFACTURER INFORMATION

A. Product Name — Gutta Percha Obturator

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

Recommend use of the product	Filling root canals
Restrictions on use of the product	For dental professionals only

C. Supplier Information

Manufacturer :
DiaDent Group International
16-gil Osong saengmyung 4-ro, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do,
Republic of Korea 28161
Tel : + 82 43 266 2315

Importer :
Ivoclar Vivadent Ltd.
12 Omega St, Rosedale, Auckland
New Zealand
Tel : + 64 9 914 9999 / Fax : + 64 9 914 9990

· **Further information obtainable from :**
Regulatory Affairs
sds@ivoclarvivadent.com
· **Emergency telephone number : 0800 764 766**
(National Poison Centre – 24 hours/7days)

2. HAZARDS IDENTIFICATION

A. GHS Classification — Serious Eye Damage/Eye Irritation : Category 2
Specific Target Organ Toxicity (Single Exposure): Category 3, Respiratory system

B. GHS Label elements, including precautionary statements

Pictorial symbol

Signal words — Caution(GHS07)

Hazard Statement — 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 INGREDIENT

Names of ingredients	Synonym	CAS No.	Content (%)
ZINC OXIDE	ZINC WHITE	1314-13-2	65~75
BaSO4	SULFURIC ACID, BARIUM SALT (1:1)	7727-43-7	5~10
Stearic Acid	-	67701-03-5	<3
Gutta Percha	-	-	10~15
Others	-	-	Balance

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.
D. Ingestion	Administer approved oxygen supply if breathing is difficult and get medical aid immediately.
E. Notes to Physicians	Seek immediate medical help. 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(CO_2), or water spray. Use dry sand or soil to smother the fire.
B. Specific hazards arising from chemicals	Smoke (fumes) can be produced due to pyrolysis or combustion process.
C. Special Protective Equipment & Precautions for fire-fighters	Fire-fighters should wear appropriate protective equipment. Stay a safe distance away from the fire while extinguishing. If not dangerous, remove the container from the fire. For disposal of fire extinguishing water, dig up and confine the water into the ditch so that it does not scatter. 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 confined spaces.
C. Purification / Removal Method	Dispose of the product as medical waste.

7. HANDLING AND STORAGE

A. Safe handling and storage	Follow all prevention measures on the SDS/labels. Handle and store with care. Give special attention to chemical materials and conditions that must be avoided. Wear personal protective equipment while handling the product.
B. Conditions for Safe Storage	Keep away from humidity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL/CHEMICAL PROPERTIES

A. Appearance	
Physical state	Solid
Color	Pink
B. Odor	N/A
C. Odor Threshold Value	N/A
D. pH	N/A
E. Melting point / Freezing point	N/A
F. Initial boiling point and boiling point range	N/A

G. Flash point	N/A
H. Evaporation rate	N/A
I. Flammability (solid, gas)	N/A
J. Upper / lower limit of ignition or explosion	N/A
K. Vapor pressure	N/A
L. Solubility	N/A
M. Vapor density	N/A
O. Specific gravity	2.7 g/㎤
P. n-octanol / water partition coefficient	N/A
Q. Natural ignition temperature	N/A
R. Decomposition temperature	N/A
S. Viscosity	N/A
T. Molecular Weight	N/A

10. STABILITY AND REACTIVITY

A. Chemical Stability and Possibility of Hazardous Reaction	N/A
B. Conditions to avoid	Direct light, excessive heat, and moisture
C. Incompatible materials	Inflammable Materials & Reducing Materials
D. Hazardous decomposition or byproduct	Smoke (fumes) can be produced due to pyrolysis or combustion process.

11. TOXICOLOGICAL 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	N/A
Respiratory sensitization	May cause irritation to the eyes
Skin sensitization	N/A
Carcinogenicity	N/A
Industrial Safety and Health Act	N/A
Notification of the Ministry of Employment and Labor	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)	N/A
Specific Target Organ Toxicity (Repeated Exposure)	Inhalation causes respiratory tract irritation
Aspiration Toxicity	N/A
	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 CONSIDERATION

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 an 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 fire	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.

F. Safety, health and environmental regulations/legislation specific for the substance or mixture.
- Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC : 1008] 3rd edition.
- Standard for the Uniform Scheduling of Medicines and Poisons.
- Carcinogen classification under WHS Regulation 2011, Schedule 10.
- Notification status in accordance with section 3 and current national legislation.
- HSNO Approval : HSR006646
- EPA NZ Classes of hazardous properties:
  Classification 9.1A (All) Substances that are very ecotoxic in the aquatic environment
  Classification 9.3C Substances that are harmful to terrestrial vertebrates

16. OTHER 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	2014-06-18
C. Revision No. & Revision Date	
Revision Number	1
Date of Last Revision	2019-06-03

○ 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.