



# Material Safety Data Sheet

- Gutta percha points and bars - METABIOMED CO., LTD.

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name : Gutta percha points and bars

Product code : D1GN203, D1GC

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Permanent filling material for root canals treatment, Use only professional dentist

### 1.3. Details of the supplier of the safety data sheet

Registered company name : METABIOMED CO., LTD.

Address : Head Office & Osong Factory) 270, Osongsaengmyeong1-ro, Osong-eup, Heungdeok-gu,  
Cheongju-si, Chungcheongbuk-do, Korea

Cheongju Factory) 136, Mochung-ro, Seowon-gu, Cheongju-si, Chungcheongbuk-do, Korea

Telephone : (82-43) 216-0433, 0434

Fax : (82-43) 216-0438

e-mail : info@meta-biomed.com

Manufacturer : METABIOMED CO., LTD.

### 1.4. Emergency telephone number

(82-43) 216-0433, 0434

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### **Classification according to Regulation (EC) No 1272/2008**

According to Regulation (EC) No 1272/2008

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### 2.2. Label elements

#### **Labelling according to Regulation (EC) No 1272/2008**

\* GHS label elements including precautionary statements

- Hazard Pictograms



- Signal word : Warning

- Hazard statement(s) : H410 Very toxic to aquatic life long lasting effects.



# Material Safety Data Sheet

- Gutta percha points and bars - METABIOMED CO., LTD.

- Precautionary Statement(s) : P273 Avoid release to the environment.  
P501 Dispose of contents/ container to an approved waste disposal plant.
- Hazard symbol(s) : N Dangerous for the environment
- R- phrase(s) : R50/53 Very toxic to aquatic, may cause long-term adverse effects in the aquatic environment.
- S-phrase(s) : S60 This material and its container must be disposed of as hazardous waste.  
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

### 2.3. Other hazards (according to the NFPA Rating System)

- Health : 1
- Flammability : 0
- Reactivity : 0

## 3. Composition/information on ingredients

### 3.1. Substances

Not Applicable

### 3.2. Mixtures

Chemical Name	CAS No.	EC No.	Wt.%	Classification according to Directive 67/548/EEC	Classification according to Regulation(EC) No 1272/2008[CLP]
Gutta-percha (Trans-1,4,-polyisoprene)	9003-31-0	-	15~25	-	-
Zinc Oxide	1314-13-2	215-222-5	55~65	;H410 N, R50/53	Aquatic Acute 1: Aquatic Chronic 1
Barium Sulfate	7727-43-7	231-784-4	10~15	-	-
Calcium Carbonate	471-34-1	217-439-9-	<5		-



# Material Safety Data Sheet

- Gutta percha points and bars - METABIOMED CO., LTD.

## 4. First aids measures

### 4.1. Description of first aid measures

- Eyes : Get medical aid immediately if discomfort or irritation persists
- Skin : Consult physician immediately if you feel discomfort.
- Inhalation : Remove patient from exposure to fresh air immediately. Administer approved oxygen supply if breathing is difficult and get medical aid immediately.
- Ingestion : Seek immediate medical help.

### 4.2. Most important symptoms and effects, both acute and delayed

- Eyes : None expected for this product
- Skin : None expected for this product
- Inhalation : None expected for this product
- Ingestion : Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available

## 5. Firefighting measures

### 5.1. Extinguishing media

- Extinguishing media : Please see Firefighting Equipment under Section 5.3.

### 5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon Monoxide, Carbon Dioxide, Hydrocarbons and Zinc fumes
- Explosion hazards : Not Determined
- Fire explosion : Not Determined
- Sensitive to static discharge : Not Determined
- Sensitivity to impact : Not Determined

### 5.3. Advice for firefighters

- Firefighting procedures : General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when product is involved in fire.
- Firefighting equipment : Non-combustible

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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



# Material Safety Data Sheet

- Gutta percha points and bars - METABIOMED CO., LTD.

## 6.2. Environmental precautions

Prevent the inflow of this product to waterways, drains, basements, and confined spaces.

## 6.3. Methods and material for containment and cleaning up

Clean up spills immediately, observing precautions in Protective Equipment section.

## 6.4. Reference to other sections

Not Applicable

## 7. Handling and storage

### 7.1. Precautions for 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 handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Keep container closed. Store in cool place.

### 7.3. Specific end use(s)

Use only professional dentist

## 8. Exposure controls and personal protection

### 8.1. Control parameters

Not determined

### 8.2. Exposure controls

- Eye protection : Wear safety glasses.
- Skin protection : Wear suitable protective clothing and gloves.
- Respiratory protection : Good general ventilation should be sufficient to control airborne levels.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- |                          |                               |                             |                                |
|--------------------------|-------------------------------|-----------------------------|--------------------------------|
| - Appearance             | : Solid, tapered shape points | - Vapor pressure            | : N/A                          |
|                          |                               | - Vapor density             | : N/A                          |
| - Odor                   | : Slight rubber smell         | - Relative density          | : 2.50 ~2.65 g/cm <sup>3</sup> |
|                          |                               | - Solubility(ies)           | : N/A                          |
| - Color                  | : Pink                        | - Partition coefficient :   | : N/A                          |
| - pH                     | : N/A                         | n-octanol/water             |                                |
| - Melting/freezing point | : 68.8°C / N/A                | - Auto-ignition temperature | : N/A                          |



# Material Safety Data Sheet

- Gutta percha points and bars - METABIOMED CO., LTD.

- |  |       |                             |       |
|--|-------|-----------------------------|-------|
| - Initial boiling point and boiling range      | : N/A | - Decomposition temperature |       |
| - Flash point                                  | : N/A | - Viscosity                 | : N/A |
| - Evaporation rate                             | : N/A | - Explosive properties      | : N/A |
| - Flammability(solid, gas)                     | : N/A | - Oxidising properties      | : N/A |
| - Upper/lower flammability or explosive limits | : N/A |                             |       |

## 9.2. Other information

None

## 10. Stability and reactivity

### 10.1. Reactivity

Stable

### 10.2. Chemical stability

Stable when stored and handled under recommended conditions.

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Direct sunlight

### 10.5 Incompatible materials

None

### 10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide, Hydrocarbons and Zinc fumes

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity      Device is biocompatible when used as directed by dental professionals per ISO 10993-1.

## 12. Ecological information

### 12.1. Toxicity

- Toxicity : Not determined
- Aquatic toxicity(acute) : Not determined

### 12.2. Persistence and degradability

Not determined



# Material Safety Data Sheet

- Gutta percha points and bars - METABIOMED CO., LTD.

## 12.3. Bioaccumulative potential

Not determined

## 12.4. Mobility in soil

Not determined

## 12.5. Results of PBT and vPvB assessment

Not determined

## 12.6. Other adverse effects

None known

## 13. Disposal considerations

### 13.1. Waste treatment methods

Dispose of in compliance with governmental regulation.(Council Directive 75/442/EEC(1975))

## 14. Transport information

### 4.1. UN Number

Classification information on transportation of hazardous materials not available

### 14.2. UN proper shipping name

N/A

### 14.3. Transport hazard class(es)

Hazard classification : N/A

### 14.4. Packing Group

Packing group : N/A

### 14.5. Environmental hazards

Marine pollutant #1 : N/A

### 14.6. Special precautions for user

- ADR - road : N/A

- RID - rail : N/A

- IMDG - sea : N/A

- IATA - air : N/A

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk : N/A



# Material Safety Data Sheet

- Gutta percha points and bars - METABIOMED CO., LTD.

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

RoHS : Please refer to Medical Devices Directive 93/42/EEC

### 15.2. Chemical safety assessment

Chemical safety assessment : See Section 11

## 16. Other information

The information contained in the Safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

### HISTORY

- **Date of creation** : 19-10-2015
- **Revision number and Revision date**
  - \* Revision number : 1
  - \* Date of last revision : 22-7-2016
- **Prepared by** : METABIOMED CO., LTD.