



Material Safety Data Sheet

- Gutta Percha Rope -

METABIOMED CO., LTD.

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

1.1. Product identifier

Product name : Gutta Percha Rope (heavy, medium, light)

Product code : D1GRH0, D1GRM0, D1GRL0

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.



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- 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	40~60	;H410 N, R50/53	Aquatic Acute 1: Aquatic Chronic 1
Barium Sulfate	7727-43-7	231-784-4	10~20	-	-
Calcium Carbonate	471-34-1	217-439-9	<5		-



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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.



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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, circular cylinder | - Vapor pressure | : N/A |
| | | - Vapor density | : N/A |
| - Odor | : Slight rubber smell | - Relative density | : N/A |
| | | - 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 |



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- | | | | |
|--|-------|-----------------------------|-------|
| - 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



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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



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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** : 2017.11.14
- **Revision number and Revision date**
 - * Revision number : 0
 - * Date of last revision : 2017.11.14
- **Prepared by** : METABIOMED CO., LTD.