



# Material Safety Data Sheet

- Metapaste Plus-

METABIOMED CO., LTD.

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

### 1.1. Product identifier

Product name : Metapaste Plus

Product code : D1MSP00, D1MSP20

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

Temporary filling material for infected root canals

### 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**

Eye irritation, Category 2(Eye Irrit. 2, H319)

Skin irritation, Category 2(Skin Irrit. 2, H315)

### 2.2. Label elements

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

\* GHS label elements including precautionary statements

- Hazard Pictograms



GHS07

- Signal word : Warning

- Hazard statement(s) : H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation



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- Precautionary Statement(s) : P261 Avoid breathing vapours.
- Prevention
- P264 Wash...thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/ face protection
- Response : P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in 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.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P321 Provide specific treatment according to the situation.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up
- Disposal : P501 Dispose of contents/container according to the related regulations

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

- Health : 2
- Flammability : 1
- Reactivity : 1

## 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]
Calcium hydroxide	1305-62-0	215-137-3	<30	C;R34	H319, H317, H412, H335, H314, H370, H290, H302, H312
Barium sulfate	7727-43-7	231-784-4	<30	Xi; R36/38	H302, H332, H371, H319, H373, H335, H315



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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 : Causes eye irritation.
- Skin : Causes skin irritation.
- 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

- Notes to physician : Corrosive

## 5. Fire fighting measures

### 5.1. Extinguishing media

- Extinguishing media : Please see Fire Fighting Equipment under Section 5.3.

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

- Hazardous combustion products : None Known.
- Explosion hazards : Not Determined
- Fire explosion : Not Determined
- Sensitive to static discharge : Not Determined
- Sensitivity to impact : Not Determined

### 5.3. Advice for firefighters

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

## 6. Accidental release measures



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

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

### 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 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.

### 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	: Paste	- Vapor pressure	: N/A
- Odor	: Odorless	- Vapor density	: N/A
		- Relative density	: N/A
- Color	: White	- Solubility(ies)	: Soluble
- pH	: 12.0~13.0	- Partition coefficient :	: N/A



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- Melting/freezing point	: N/A	n-octanol/water	
- Initial boiling point and boiling range	: N/A	- Auto-ignition temperature	: N/A
- Flash point	: N/A	- Decomposition temperature	
- Evaporation rate	: N/A	- Viscosity	: N/A
- Flammability(solid, gas)	: N/A	- Explosive properties	: N/A
- Upper/lower flammability or explosive limits	: N/A	- Oxidising properties	: 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

Extreme heat, direct light and humidity

### 10.5 Incompatible materials

N/A

### 10.6. Hazardous decomposition products

Iodine

## 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.
Irritation and corrosiveness	May be irritating to eyes or skin on contact
Sensitization	N/A
Sub-acute, sub chronic and prolonged toxicity	None known
Carcinogenicity, Mutagenicity, Reproductive toxicity	None known



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Empirical data	None known
Clinical experience	None known

## 12. Ecological information

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

Not determined

### 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

N/A

### 14.2. UN proper shipping name

N/A

### 14.3. Transport hazard class(es)

N/A



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## 14.4. Packing Group

N/A

## 14.5. Environmental hazards

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

## 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 : 17-04-2020

### - Revision number and Revision date

\* Revision number : 2

\* Date of last revision : 07-01-2022

- Prepared by : METABIOMED CO., LTD.