



# Material Safety Data Sheet

- MD-Temp -

METABIOMED CO., LTD.

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

### 1.1. Product identifier

Product name : MD-Temp

Product code : D1MDTW0, D1MDTP0

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

Dental temporary filling material

### 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

### - Classification of the substance or mixture

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

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

### - Label elements

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

\* Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device. The product is classified and labelled according to the CLP regulation.

- Hazard Pictograms



GHS07



GHS09



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- Signal word : Warning
- Hazard statement(s) : H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.
- Precautionary Statement(s) :  
Prevention P264 Wash...thoroughly after handling  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/ face protection
- Response : P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.
- 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 : 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]
Ethanol	64-17-5	200-578-6	12	Flam. Liq. 2	H225
Zinc Oxide	1314-13-2	215-222-5	38	R50/53 S60, S61	H410, P273, P501
Zinc Sulfate	7446-20-0	231-793-3	30	R22, R41, R50/53 (S2), S22, S26, S39, S46, S60, S61	H302, H318, H410, P273, P280, P305+P351+P338, P501
Polyvinyl acetate	25086-48-0	-	20	R36/37/38	H315, H319, H335



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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 burns.
- Skin : Causes skin burns.
- 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. Fire fighting measures

### 5.1. Extinguishing media

- Extinguishing media : Suitable - Carbon Dioxide, Sand, Extinguishing powder. Do not use water.  
: Not suitable - Water, Water with full jet

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

- Hazardous combustion products : SOX, ZnO, Chlorine.
- 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



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## 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.

### 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

Absorb with liquid-binding material. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

### 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  |
| - Color      | : White or Pink | - Relative density | : >1.0 |



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

humidity, extreme heat, direct light

### 10.5 Incompatible materials

N/A

### 10.6. Hazardous decomposition products

SO<sub>x</sub>, ZnO, Chlorine

## 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



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## 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

### 14.1. 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)

N/A

### 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



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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** : 19-10-2015
- **Revision number and Revision date**
  - \* Revision number : 2
  - \* Date of last revision : 29-12-2017
- **Prepared by** : METABIOMED CO., LTD.