



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

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

### 1.1. Product identifier

Product name : Meta Etchant

Product code : D1MET00

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

Dental Etchant

### 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

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**

May be corrosive to metals (Category 1), H290

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) : H290 May be corrosive to metals  
H315 Causes skin irritation.  
H319 Causes serious eye irritation



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

- Precautionary Statement(s) : P234 Keep only in original container
- Prevention P261 Avoid breathing vapours  
P280 Wear protective gloves/protective clothing/eye protection/ face protection  
P264 Wash thoroughly after handling.
- Response : P302+P352 IF ON SKIN: Wash with plenty of water.  
P303 +P361 +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301 +P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.  
P301 +P330 +P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P390 Absorb spillage to prevent material damage.
- Disposal : P501 Dispose of contents/container according to the related regulations

### 2.3. Other hazards

**This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.**

## 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] |
|-----------------|-----------|--------|------|--------------------------------------------------|--------------------------------------------------------------|
| Phosphoric acid | 7664-38-2 | -      | <40  | C Corrosive R34                                  | Corrosive to metals (Category 1), H290 Skin corrosion        |



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

|                 |            |   |     |   | (Category 1B),<br>H314 |
|-----------------|------------|---|-----|---|------------------------|
| Distilled water | 7732-18-5  | - | <60 | - | -                      |
| Xanthan gum     | 11138-66-2 | - | 1-5 | - | -                      |
| Blue pigment    | 1345-16-0  | - | 1-5 | - | -                      |

## 4. First aids measures

### 4.1. Description of first aid measures

- Inhalation : Remove person to fresh air. If you feel unwell, get medical attention
- Skin Contact : Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.
- Eye Contact : Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.
- If Swallowed : Rinse mouth. If you feel unwell, get medical attention.

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

- Inhalation : This product may have a characteristic odor; however, no adverse health effects are anticipated.
- Skin Contact : Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.
- Eye Contact : Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
- Ingestion : May be harmful if swallowed.  
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

### 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 : Water, Foam, Carbon Dioxide, Dry Chemical



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

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

- Hazardous combustion products : Burning may produce :Carbon Monoxide, Carbon Dioxide
- 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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

### 6.4. Reference to other sections

Not Applicable

## 7. Handling and storage

### 7.1. Precautions for safe handling

Always wear gloves and eye protection. Product is intended for dental use only.

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

Keep out of reach of children. Protect from exposure to direct sun light. Keep container closed. Store in cool place.

### 7.3. Specific end use(s)

Use only professional dentist



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

## 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 : None required

## 9. Physical and chemical properties

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

- |                               |            |                                        |           |
|-------------------------------|------------|----------------------------------------|-----------|
| - Appearance                  | : Semi gel | - Vapor pressure                       | : N/A     |
| - Odor                        | : N/A      | - Vapor density                        | : N/A     |
| - Color                       | : Blue     | - Specific gravity(H <sub>2</sub> O=1) | : 1.1~1.2 |
| - pH                          | : <1       | - Solubility(ies)                      | : soluble |
| - Melting/freezing point      | : N/A      | - Partition coefficient :              | : N/A     |
| - Initial boiling point and   | : N/A      | n-octanol/water                        |           |
| boiling range                 |            | - Auto-ignition temperature            | : N/A     |
| - Flash point                 | : N/A      | - Decomposition temperature            | : N/A     |
| - Evaporation rate            | : N/A      | - Viscosity                            | : N/A     |
| - Flammability(solid, gas)    | : N/A      | - Explosive properties                 | : N/A     |
| - Upper/lower flammability or | : N/A      | - Oxidising properties                 | : N/A     |
| explosive limits              |            |                                        |           |

### 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

None known.



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

## 10.5 Incompatible materials

None known.

## 10.6. Hazardous decomposition products

CO

## 11. Toxicological information

### 11.1. Information on toxicological effects

- Acute toxicity : N/A
- Primary effects to skin : May mildly irritate skin
- Primary effects to eyes : May mildly irritate the eye
- Primary effects to respiratory system : Not an acute inhalation hazard
- Sensitization : Repeated or prolonged contact with the not polymerized may cause sensitization for methacrylates.
- Additional toxicological info : N/A

## 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 contents/ container in accordance with the local/regional/national/international regulations.



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

## 14. Transport information

### 14.1. UN Number

N/A

### 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

## 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



# Material Safety Data Sheet

- Meta Etchant -

METABIOMED CO., LTD.

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** : 08-03-2015.
- **Revision number and Revision date**
  - \* Revision number : 5
  - \* Date of last revision : 02-01-2023
- **Prepared by** : META BIOMED CO., LTD.