

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

1.1. Product identifier

Product name : Biner LC

Product code : D1BLC00

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

Cavity Liner

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

Acute Toxicity (oral): Category 4.

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) : H302 Harmful if swallowed.



Material Safety Data Sheet

- Biner LC -

METABIOMED CO., LTD.

- Precautionary Statement(s) :

Prevention : P270 Do not eat, drink or smoke when using this product.
P264 Wash thoroughly after handling.

- Response :

P330 Rinse mouth.
P301 +P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

- 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]
Urethane Dimethacrylate	72869-86-4	276-957-5	<35	-	Skin sensitization (Category 1),H317
Hydroxyapatite	1306-06-5	215-145-7	1-10		Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335



Material Safety Data Sheet

- Biner LC -

METABIOMED CO., LTD.

Triethyleneglycol dimethacrylate	109-16-0	203-652-6	1-5	Xi Irritant R36/37/38, R43	Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335
Aerosil	68611-44-9				
Barium aluminium boro silicate	-	-	<45	-	-

4. First aids measures

4.1. Description of first aid measures

- General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.
- If inhaled : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- In case of skin contact : Wash off with soap and plenty of water. Consult a physician.
- If Swallowed : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

- Inhalation : Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
- 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



Material Safety Data Sheet

- Biner LC -

METABIOMED CO., LTD.

5. Fire fighting measures

5.1. Extinguishing media

- Extinguishing media : Water, Foam, Carbon Dioxide, Dry Chemical

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



Material Safety Data Sheet

- Biner LC -

METABIOMED CO., LTD.

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 : None required

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | | | |
|--|------------------------------|---|-------------------------|
| - Appearance | : Paste | - Vapor pressure | : N/A |
| - Odor | : Slight characteristic odor | - Vapor density | : N/A |
| | | - Density | : 1.6 g/cm ³ |
| - Color | : Tooth color | - Specific gravity(H ₂ O=1) | : 1.6 |
| - pH | : N/A | - Solubility(ies) | : Insoluble |
| - Melting/freezing point | : N/A | - Partition coefficient : n-octanol/water | : N/A |
| - 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



Material Safety Data Sheet

- Biner LC -

METABIOMED CO., LTD.

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.

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



Material Safety Data Sheet

- Biner LC -

METABIOMED CO., LTD.

None known

13. Disposal considerations

13.1. Waste treatment methods

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



Material Safety Data Sheet

- Biner LC -

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** : 2015.03.08
- **Revision number and Revision date**
 - * Revision number : 1
 - * Date of last revision : 2016.11.28
- **Prepared by** : METABIOMED CO., LTD.