- Biner LC -

METABIOMED CO., LTD.

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

#### 1.1. Product identifier

META

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.



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- 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

				Classification	Classification
Chemical Name	CAS	EC	Wt.%	according to	according to
Chemical Name	No.	No.	VVI.70	Directive	Regulation(EC) No
				67/548/EEC	1272/2008[CLP]
Urethane Dimethacrylate	72869-	276-	<35		Skin sensitization
	86-4	957-5		-	(Category 1),H317
					Skin irritation
					(Category 2), H315
					Eye irritation
					(Category 2), H319
Hydroxyapatite	1306-	215-	1-10		Specific target
Tydroxyapane	06-5	145-7	1-10		organ toxicity -
					single exposure
					(Category 3),
					Respiratory
					system, H335



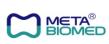
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Triethyleneglycol dimethacrylate	109-16- 0	203- 652-6	1-5	Xi Irritant R36/37/38, R43	Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335
Aerosil	68611-				(Calegory 3), 11353
	44-9				
Barium aluminium boro silicate	-	-	<45	-	-

#### 4. First aids measures

4.1. Description of fi	irst 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	: Wash off with soap and plenty of water. Consult a physician.
contact	
- 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 an	y immediate medical attention and special treatment needed
No further relevant in	nformation available



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#### 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



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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 - Vapor density : N/A characteristic - Density : 1.6 g/cm<sup>3</sup> odor - Specific gravity(H<sub>2</sub>O=1) : 1.6 - Color : Tooth color - Solubility(ies) : Insoluble - Partition coefficient : - pH : N/A : N/A - Melting/freezing point : N/A n-octaol/water - Initial boiling point and : N/A - Auto-ignition temperature : N/A boiling range - Decomposition temperature - Flash point : N/A - Viscosity : N/A - Evaporation rate : N/A - Explosive properties : N/A - Flammability(solid, gas) - Oxidising properties : N/A : N/A - Upper/lower flammability or : N/A explosive limits 9.2. Other information None

#### 10. Stability and reactivity

10.1. Reactivity

Stable



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#### 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**

СО

#### 11. Toxicological information

11.1. Information on toxicologic	al 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	: Not an acute inhalation hazard
respiratory system	
- Sensitization	: Repeated or prolonged contact with the not polymerized may cause
	sensitization for methacrylates.
- Additional toxicological info	: N/A

#### 12. Ecological information

<ul> <li>Toxicity : Not determined</li> <li>Aquatic toxicity(acute) : Not determined</li> <li>12.2. Persistence and degradability Not determined </li> <li>12.3. Bioaccumulative potential Not determined </li> <li>12.4. Mobility in soil Not determined </li> <li>12.5. Results of PBT and vPvB assessment</li></ul>
12.2. Persistence and degradability         Not determined         12.3. Bioaccumulative potential         Not determined         12.4. Mobility in soil         Not determined
Not determined 12.3. Bioaccumulative potential Not determined 12.4. Mobility in soil Not determined
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Not determined 12.4. Mobility in soil Not determined
12.4. Mobility in soil Not determined
Not determined
12.5. Results of PBT and vPvB assessment
Not determined
12.6. Other adverse effects



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None known

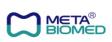
#### 13. Disposal considerations

#### 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



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