

- Metacem -

METABIOMED CO., LTD.

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

#### 1.1. Product identifier

Product name: Metacem

Product code: D1MCRA1 (Meta CEM A1)

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

Dental cement

#### 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

Skin Sensitizer (Category 1), H317

Causes serious eye damage (Category 1), H318

Causes serious eye irritation (Category 1), H319

#### 2.2 Label elements

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

- \* GHS label elements including precautionary statements
- Hazard Pictograms



GHS08



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- Signal word : Warning

- Hazard statement(s) : H317 may cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H351 Suspected of causing cancer.

- Precautionary Statement(s)

Prevention: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the

workplace.

P285 In case of inadequate ventilation wear respiratory protection.

- Response : P304 +P341 IF INHALED: If breathing is difficult, remove person to fresh

air and keep comfortable for breathing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician.

P305 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

P337 If eye irritation persists: Get medical advice/attention.

P302 IF ON SKIN: Wash with plenty of soap and water.

P332 If skin irritation occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

- 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.



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## 3. Composition/information on ingredients

## 3.1. Substances

Not Applicable

## 3.2. Mixtures

Chemical Name	CAS No.	EC No.	Wt.%	Classification	Classification
				according to	according to
				Directive	Regulation(EC) No
				67/548/EEC	1272/2008[CLP]
Bisphenol A Glycerolate dimethacrylate	1565- 94-2	-		Xi Irritant R43	Serious eye
					damage
				Xi Irritant R43	(Category 1),H318
			30	Ai iiiilani K41	Skin sensitization
					(Category 1),H317
Triethyleneglycol dimethacrylate					Skin irritation
	109-16- 0	203- 652-6	5-15		(Category 2), H315
					Eye irritation
				Xi Irritant	(Category 2), H319
				R36/37/38, R43	Specific target
					organ toxicity -
					single exposure
					(Category 3), H335
Benzoyl peroxide					Organic peroxides
					(Type C), H242
					Eye irritation
					(Category 2), H319
	94-36-0		<3	-	Skin sensitisation
					(Category 1), H317
					Acute aquatic
					toxicity (Category
					1), H400 Chronic
					aquatic toxicity
					(Category 1), H410
Silane treated Barium silicate	_	_	60-	_	_
			70		

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#### 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 : Immediately 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 : Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal

discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing,

wheezing, cough, and tightness of chest.

- Skin Contact : Mild Skin Irritation: Signs/symptoms may include localized redness, swelling,

itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms

may include redness, swelling, blistering, and itching.

- Eye Contact : Severe Eye Irritation: Signs/symptoms may include significant redness, swelling,

pain, tearing, cloudy appearance of the cornea, and impaired 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

#### 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



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- 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

#### 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

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: N/A

## 9. Physical and chemical properties

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

- Appearance : Paste - Vapor pressure : N/A- Odor : Slightly acrylic - Vapor density : N/A

odor: - Density : N/A

- Color : Tooth color - Specific gravity(H<sub>2</sub>O=1) : N/A

- pH : N/A - Solubility(ies) : Insoluble

- Melting/freezing point : N/A - Partition coefficient : : N/A

- Initial boiling point and : N/A n-octaol/water

boiling range - 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 : N/A - Oxidising properties

9.2. Other information

explosive limits

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.

## 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



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- 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

### 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.

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.

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## 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 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.



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**HISTORY** 

**- Date of creation** : 15-03-2015

- Revision number and Revision date

\* Revision number : 4

\* Date of last revision : 02-01-2023

- Prepared by : META BIOMED CO., LTD.