- MD-Cleanser -

METABIOMED CO., LTD.

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

1.1. Product identifier

Product name : MD-Cleanser

Product code : D1MCL00

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

Root Canal Cleaning and Smear Layer Removing Solution

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

Skin irritation, Category 2(Skin Irrit. 2, H315)

Eye irritation, Category 2(Eye Irrit. 2, H319)

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) : H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
- Precautionary Statement(s)
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue



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	rinsing.
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- Response	
- Disposal	: P501 Dispose of contents/container according to the related
	regulations
2.3. Other hazards (according	to the NFPA Rating System)
- Health : 1	
- Flammability : 0	
- Reactivity : 0	

3. Composition/information on ingredients

3.1. Substances

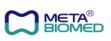
Not Applicable

3.2. Mixtures

				Classification	Classification according
Chemical Name	CAS No.	EC No.	Wt.%	according to Directive	to Regulation(EC) No
				67/548/EEC	1272/2008[CLP]
EDTA(Ethylene					GHS07
diamine tetraacetic	60-00-4		17	Xi;R36/37/38	Warning
acid)					H315,H319

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 of this material can cause mouth, throat, esophageal, and gastrointestinal - Ingestion



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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	: Please see Fire Fighting Equipment under Section 5.3.		
5.2. Special hazards arising from	the substance or mixture		
- Hazardous combustion products	: None Known.		
- Explosion hazards	: Not Determined		
- Fire explosion	: Not Determined		
- Sensitive to static discharge	: Not Determined		
- Sensitivity to impact	: Not Determined		
5.3. Advice for firefighters			
- Fire fighting procedures	: General: Evacuate all personnel; use protective equipment for fire-		
	fighting. Use self-contained breathing apparatus when product is		
	involved in fire.		
- Fire fighting equipment	: Non-combustible		

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

Clean up spills immediately, observing precautions in Protective Equipment section.

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.



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Wear personal protective equipment while handing 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	: liquid	- Vapor pressure	: 1 atm	
- Odor	: Odorless:	- Vapor density	: N/A	
- Color	: Colorless	- Relative density	: 0.976	
- pH	: 6 to 8(at 25℃)	- Solubility(ies)	: Soluble	
- Melting/freezing point	: - 3°C	- Partition coefficient :	: N/A	
- Initial boiling point and	: 103°C	n-octaol/water		
boiling range		- Auto-ignition temperature	: N/A	
- Flash point	: N/A	- Decomposition temperature		
- Evaporation rate	: N/A	- Viscosity	: 1~2 cps	
- 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



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Stable when stored and handled under recommended conditions.

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Heat

10.5 Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

None known

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.		
Irritation and corrosiveness	May be irritating to eyes or skin on contact		
Sensitization	N/A		
Sub-acute, sub chronic and	None known		
prolonged toxicity			
Carcinogenicity, Mutagenicity,	None known		
Reproductive toxicity			
Empirical data	N/A		
Clinical experience	EDTA, 17% Solution has been on the market in the US and		
	internationally for more than 15 years. Using EDTA 17% Solution as		
	part of root canal treatment is a well-established (20+ years), industry-		
	accepted, endodontic practice. EDTA is considered to be safe and		
	effective treatment in the hands of a dental professional.		

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



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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

4.1. UN Number

Classification information on transportation of hazardous materials not available

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14.2. UN proper shipping name
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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

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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



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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	: 1		
* Date of last revision	: 28-11-2016		
- Prepared by	: METABIOMED CO., LTD.		