

**1. Identification of the substance/preparation and of the company/undertaking**

- **Product name** : EdgeCaOH™

- **Supplier** : METABIOMED CO., LTD.  
Head Office & Osong Factory) 270, Osongsaengmyeong1-ro, Osong-eup,  
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**2. Hazards identification**

- **Physical/chemical hazards** : Irritant.

- **Human health hazards** : Risk of serious damage to eyes.

- **HMIS ration** : Health: 2, Flammability:0, Reactivity : 0

- **Environmental hazards** : None

**3. Composition/information on ingredients****Information on ingredients**

<b>Chemical name</b>	<b>CAS No.</b>	<b>w/w %</b>	<b>EC Number</b>	<b>Symbol</b>	<b>R-Phrases</b>
Calcium hydroxide	1305-62-0	<30		Xi	R41
Barium sulfate	7727-43-7	<35		-	-
Poly propylene glycol	25322-69-4	<35		-	-

**4. First aids measures**

- **Inhalation** : If inhaled, remove to fresh air. If not breathing give artificial respiration.  
If breathing, give oxygen.

- **Ingestion** : If swallowed, wash out mouth with water provided person is conscious.  
Call a physician.

- **Skin contact** : Immediately wash skin with soap and copious amounts of water

- **Eye contact** : Immediately flush eyes

**5. Fire fighting measures****Extinguishing media**

- **Suitable** : Water, Foam, Carbon Dioxide, Dry Chemical

- **Not suitable** : N/A
- **Special fire fighting procedures** : Self contained breathing apparatus to prevent smoke inhalation.
- **Unusable fire/explosion hazards** : None
- **Hazardous thermal (de)composition products** : Carbon Monoxide, Carbon Dioxide
- **Protection of fire fighters** : None

### 6. Accidental release measures

- **Personal precautions** : None
- **Environmental precautions** : None
- **Methods for cleaning up** : N/A

### 7. Precautions for safe handling

- **Handling** : Always wear gloves and eye protection. Keep container closed when not in use.
- **Storage** : Keep out of reach of children. Keep container closed. Store in cool place.

### 8. Exposure controls/personal protection

- **Precautions for use** : None
- **Respiratory protection** : None
- **Skin and body** : Wear suitable protective clothing.
- **Hands** : Wear suitable gloves.
- **Eyes** : With sufficient extraction or closed system; safety goggles.

### 9. Physical and chemical properties

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| <ul style="list-style-type: none"> <li>- <b>Physical state</b> : Paste</li> <li>- <b>Color</b> : off-white</li> <li>- <b>Odor</b> : Odorless</li> <li>- <b>Boiling point</b> : N/A</li> <li>- <b>Melting point</b> : N/A</li> <li>- <b>Vapor pressure</b> : N/A</li> <li>- <b>Specific gravity(H<sub>2</sub>O=1)</b> : ~2</li> </ul> | <ul style="list-style-type: none"> <li>- <b>Solubility in water</b> : Soluble</li> <li>- <b>pH</b> : N/A</li> <li>- <b>Flash point</b> : Not-regulated</li> <li>- <b>Autoignition temperature</b> : N/A</li> <li>- <b>Lower explosion limit</b> : N/A</li> <li>- <b>Upper explosion limit</b> : N/A</li> <li>- <b>Viscosity</b> : N/A</li> </ul> |
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**10. Stability and reactivity**

- **Stability** : Stable
- **Condition to avoid** : N/A
- **Materials to avoid** : None
- **Hazardous reactions** : None
- **Hazardous decomposition products** : CO

**11. Toxicological information**

- **Acute toxicity** : N/A
- **Primary effects to skin** : May be irritant
- **Primary effects to eyes** : May be irritant
- **Primary effects to respiratory system** : Not an acute inhalation hazard
- **Sensitization** : N/A
- **Additional toxicological info** : N/A

**12. Ecological information**

- **General information** : N/A
- **Classification of water endangerment** : N/A

**13. Disposal considerations**

- **Product** : Not considered a RCRA hazardous waste as identified in Fed. Reg. 40CFR261. If this product cannot be used as directed by the label, contact the local Environmental Control Agency or Agent.

**14. Transport information**

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| <ul style="list-style-type: none"> <li>- <b>DOT shipping name</b> : Not-regulated</li> <li>- <b>DOT hazard class</b> : Not-regulated</li> <li>- <b>UN number</b> : N/A</li> <li>- <b>Sea transport IMDG/GGV sea class</b> : N/A</li> <li>- <b>UN number</b> : N/A</li> <li>- <b>EmS number</b> : N/A</li> <li>- <b>MFGA number</b> : N/A</li> </ul> | <ul style="list-style-type: none"> <li>- <b>Air transport ICAO-Ti and IATA-DGR class</b> : N/A</li> <li>- <b>UN number</b> : N/A</li> </ul> |
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**15. Regulatory information**

- Hazard symbol	: Xi, Irritant		
- R-Phrases	: R41: Risk of serious damage to eyes.		
- S-Phrases	: S26-39 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection		
- SARA 313 toxic chemicals	<b><u>Chemical name</u></b>	<b><u>CAS-No.</u></b>	<b><u>Weight %</u></b>
	None		
- Classification according to EEC Guidelines	: N/A		
- Classification according to VBF	: N/A		
- Canadian regulations require the inclusion of the following statements under "Regulatory Information"; "This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations."			

**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 printing : 3-8-2015
- Date previous issue : 3-8-2015
- Date of issue : 3-8-2015
- Prepared by : METABIOMED CO., LTD.