

# Material Safety Data Sheet (MSDS)

## 1. PRODUCT IDENTIFICATION

### A. Material Identity:

- Amber Mill Direct Series

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

- Purpose : For recovering damaged teeth and esthetics by milling lithium disilicate glass ceramic material
- Usage : This products should be handled by dental technicians and dentists

### C. Details of the supplier of the safety data sheet

#### ○ Manufacturer / Supplier information

- Company name : HASS Corporation
- Address : 77-14, Gwahakdanji-ro Gangneung-si, Gangwon-do, Korea
- Department : R&D Center
- Contact number : +82-70-7712-1300
- FAX number : +82-33-644-1231
- Homepage : www.hassbio.com

## 2. HAZARDS IDENTIFICATION

### A. Classification of the substance or mixture

- The substance is not classified according to the GHS regulation.

### B. Label elements

- Pictograms
  - Not applicable
- Signal word
  - Not applicable
- Hazard statements
  - Not applicable
- Precautionary statements
  - 1) Precaution
    - Not applicable
  - 2) Action
    - Not applicable
  - 3) Store
    - Not applicable
  - 4) Disposal
    - Not applicable

### C. Others hazards

- NFPA Grade (0 ~ 4 Grade)
  - Health: 0 Fire: 0 Reactivity: 0

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Conc. %
Ceramic materials	66402-68-4	100%

#### 4. FIRST AID MEASURES

##### A. General information:

- No special measures required.

##### B. EYE CONTACT

- Rinse opened eye for several minutes under running water.
- If symptoms persist, consult a doctor.

##### C. SKIN CONTACT

- Generally the product does not irritate the skin.

##### D. If inhaled

- Supply fresh air
- Perform CPR if not breath
- Oxygenate if hard to breath
- If symptoms persist, consult a doctor.

##### E. If swallowed

- Rinse out mouth and then drink plenty of water.
- If symptoms persist, consult a doctor.

##### F. Information for doctor:

- Indication of any immediate medical attention and special treatment needed

#### 5. FIRE FIGHTING MEASURES

##### A. Extinguishing Media:

- Suitable extinguishing agents: The product is not flammable.

##### B. Special hazards arising from the substance or mixture

- No further relevant information available.

#### 6. ACCIDENTAL RELEASE MEASURES

##### A. Personal precautions, protective equipment and emergency procedures Not required.

- Not required

##### B. Environmental precautions

- No special measures required.

#### 7. HANDLING AND STORAGE

##### A. Precautions for safe handling

- Only adequately trained personnel should handle this product.
- For use in dentistry only.

##### B. Information about fire - and explosion protection:

- No special measures required.

##### C. Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required
- Further information about storage conditions: None.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### A. Control parameters

- ☐ Domestic exposure levels
  - Not applicable
- ☐ ACGIH exposure levels
  - Not applicable
- ☐ Biological exposure levels
  - Not applicable

##### B. Appropriate engineering controls

- Not applicable

##### C. Personal protection

- ☐ General information for normal uses and conditions
  - Wear suitable protective clothing
- ☐ Respiratory protection
  - Wear anti-dust equipment on mouth
- ☐ Eye protection
  - Use dust-proof goggles or safety glasses with side shields.
  - Install washing facility near work place
- ☐ Hand protection
  - Wear suitable protective gloves

- Skin and body protection
  - Wear suitable protective clothings

## 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance Form	
- Form	: Solid
- Colour	: According to product specification
B. Odour	: Odourless
C. Odour Threshold	: Not applicable
D. pH	: Not applicable
E. Melting/freezing point	: Not determined
F. Initial boiling point and boiling range	: Not determined
G. Flash point	: Not applicable
H. Evaporation rate	: Not applicable
I. Flammability	: Nonflammable
J. Upper/lower flammability or explosive	: Not determined
K. Vapour pressure	: Not determined
L. Water solubility	: Insoluble.
M. Relative density	: Not determined
N. Specific gravity	: 2.5g/cm <sup>3</sup>
O. Partition coefficient : n-octanol/water	: Not determined
P. Autoignition temperature	: Not applicable
Q. Decomposition temperature	: Not applicable
R. Viscosity	: Not applicable
S. Oxidizing properties	: Not applicable

## 10. REACTIVITY AND STABILITY

### A. Reactivity

- No further relevant information available

### B. Chemical stability

- Stable under normal handling and storage conditions

### C. Possibility of hazardous reactions

- No decomposition if used according to specifications

### D. Conditions to avoid

- No further relevant information available.

### E. Incompatible materials

- No further relevant information available

### F. Hazardous decomposition products

- None under normal conditions of storage and use

## 11. REACTIVITY AND STABILITY

### A. Information on toxicological effects

- Acute toxicity
  - Not determined
- Skin irritation
  - No irritating effect.
- Eye irritation
  - No irritating effect.
- Respiratory or skin sensitization
  - Not determined

## 12. ECOLOGICAL INFORMATION

### A. Toxicity

- Aquatic toxicity:
  - No further relevant information available.

### B. Persistence and degradability

- Persistence
  - Not applicable
- degradability
  - Not applicable

**C. Bioaccumulative potential**

- ☐ Bioaccumulative potential
  - Not applicable
- ☐ Biodegradability
  - Not applicable

**D. Mobility in soil**

- Not applicable

**E. Other adverse effects**

- Not applicable

**13. DISPOSAL CONSIDERATIONS****A. Methods**

- Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
- Incineration treatment is recommended.

**B. Recommendation**

- Disposal must be made according to official regulations

**14. TRANSPORT INFORMATION****A. UN-Number**

- Not classified as dangerous goods

**B. UN proper shipping name**

- Not applicable

**C. Transport hazard class**

- Not applicable

**D. Packaging group**

- Not applicable

**E. Environmental hazards**

- Not applicable

**F. Special precautions for users**

- Follow Safety Control of Dangerous Substances Act for local delivery
- Packing and shipping in accordance with DOT and other regulations
- Emergency move in fire : Not applicable
- Emergency moves in effusion : Not applicable

**15. REGULATORY INFORMATION****A. Korea Industrial Safety and Health Act :**

- ☐ Working environment measurement substances
  - Not applicable
- ☐ Exposure level measurement substances
  - Not applicable
- ☐ Toxic Chemicals Control Act
  - Not applicable
- ☐ Surveillance of occupational disease
  - Not applicable

**B. Korea Hazardous Materials Safety Control Act**

- ☐ Toxic
  - Not applicable
- ☐ Observation material
  - Not applicable
- ☐ Emission displacement
  - Not applicable
- ☐ Accident prevention
  - Not applicable
- ☐ Restricted
  - Not applicable

**C. Korea Toxic Chemicals Control Act**

- Not applicable

**D. Waste Control Act**

- Dispose of in accordance with local, state, and federal regulations

**E. STATE REGULATION**

- Persistent Organic Pollutants Control Act
  - Not applicable
- EU classification result
  - \* Classification result
    - Not classified
  - \* Hazardous statements
    - Not applicable
  - \* Precautionary statements
    - Not applicable
- Americal quality control information
  - \* OSHA Regulation (29CFR1910.119)
    - Not applicable
  - \* CERCLA 103 Regulation (40CFR302.4)
    - Not applicable
  - \* EPCRA 302 Regulation (40CFR355.30)
    - Not applicable
  - \* EPCRA 304 Regulation (40CFR355.40)
    - Not applicable
  - \* EPCRA 313 Regulation (40CFR372.65)
    - Not applicable
- Rotterdam convention chemicals
  - Not applicable
- Stockholm convention chemicals
  - Not applicable
- Montreal Protocol
  - Not applicable

**16. OTHER INFORMATION****A. Source**

- This MSDS are written in consideration of present conditions of regulation according to industrial Safety and Health act 41 and Employment and Labor Act12-14 (MSDS standard)

**B. Issued Date**

- 2018.05.15

**C. Revision No. and Date**

- Rev.0, May 15th, 2018

**D. Others**

- Not applicable