

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 ³
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