

Material Safety Data Sheet(MSDS)

1. PRODUCT IDENTIFICATION

A. Material Identity:

- Amber LiSi-POZ Series

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

- Purpose : For recovering damaged teeth and esthetics by **pressing** 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 levels 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 displace
- 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 Act 12-14 (MSDS standard)

B. Issued Date

- Feb 19th, 2016

C. Revision No. and Date

- Rev.0, Feb 19th, 2016

D. Others

- Not applicable