

# SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200

## 1. IDENTIFICATION

### A. Product name

- Silica L-51(105)

### B. Recommended use and restriction on use

- General use : Cosmetics  
- Restriction on use : Not available

### C. Manufacturer / Supplier / Distributor information

#### ○ Manufacturer information

- Company name : K.S.PEARL CO., LTD.  
- Address : 249 Namdongdong-ro, Namdong-gu, Incheon City, Korea  
- Emergency telephone number : +82-32-822-8084

#### ○ Supplier / Distributor information

- Company name : K.S.PEARL CO., LTD.  
- Address : 249 Namdongdong-ro, Namdong-gu, Incheon City, Korea  
- Emergency telephone number : +82-32-822-8084

## 2. HAZARD IDENTIFICATION

### A. GHS Classification

- Not applicable

### B. GHS label elements

#### ○ Hazard symbols

- Not applicable

#### ○ Signal words

- Not applicable

#### ○ Hazard statements

- Not applicable

#### ○ Precautionary statements

##### 1) Prevention

- Not applicable

##### 2) Response

- Not applicable

##### 3) Storage

- Not applicable

##### 4) Disposal

- Not applicable

### C. Other hazards which do not result in classification

- Not available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

INCI name	CAS No.	Content(%)
Silica	7631-86-9	100.0

## 4. FIRST AID MEASURES

### A. Eye contact

- Do not rub your eyes.  
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.  
- Get medical attention immediately.

### B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

- Wash contaminated clothing thoroughly before re-using.
- Get medical attention immediately.

#### **C. Inhalation contact**

- When exposed to large amount of steam and mist, move to fresh air.
- If not breathing, give artificial respiration.
- Get medical attention immediately.

#### **D. Ingestion contact**

- Never give anything by mouth to an unconscious person.
- Rinse your mouth with water immediately.
- Get medical attention immediately.

#### **E. Delayed and immediate effects and also chronic effects from short and long term exposure**

- Not available

#### **F. Notes to physician**

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

### **5. FIREFIGHTING MEASURES**

#### **A. Suitable (Unsuitable) extinguishing media**

- Use water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
- Avoid use of water jet for extinguishing.

#### **B. Specific hazards arising from the chemical**

- Causes damage to organs through prolonged or repeated exposure.

#### **C. Special protective actions for firefighters**

- Block access by unauthorized persons and prohibit entry into the hazardous area.
- In case of a large-scale fire, use an unmanned waterproofing device, and if this is not possible, step back and let it burn.
- Cool containers with water until well after fire is out.
- Do not approach the tank surrounded by fire until it is extinguished.
- Avoid inhalation of materials or combustion by-products.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **A. Personal precautions, protective equipment and emergency procedures**

- Do not touch spilled material. Stop leak if you can do it without risk.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment.
- Move container to safe area from the leak area.
- Must work against the wind, let the upwind people to evacuate.
- Remove all sources of ignition.

#### **B. Environmental precautions**

- If large amounts have been spilled, inform the relevant authorities.
- Prevent runoff and contact with waterways, drains or sewers.

#### **C. Methods and materials for containment and cleaning up**

- Appropriate container for disposal of spilled material collected.
- Disposal of waste shall be in compliance with the Wastes Control Act.
- Dust spills : Cover dust spills with plastic sheet or waterproof cloth to minimize spreading and avoid contact with water.
- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notify the central and local government if the emission reach the standard threshold.

### **7. HANDLING AND STORAGE**

#### **A. Precautions for safe handling**

- Avoid contact with skin and eyes.
- Avoid formation of dust and aerosols.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Work with reference to engineering controls and personal protective equipment.
- Do not handle until all safety precautions have been read and understood.

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

- Check regularly for leaks.
- Keep closed when not in use.
- Store in a cool, dry and well-ventilated place.
- Do not use damaged containers.
- Do not apply any physical shock to the container.
- After sealing, store at room temperature (1~30°C).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### A. Exposure limits

- ☐ **ACGIH TLV**
  - Not applicable
- ☐ **OSHA PEL**
  - Not applicable

### B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.
- Individual protection measures, such as personal protective equipment.

### C. Individual protection measures, such as personal protective equipment

- ☐ **Respiratory protection**
  - Air-purifying respirator with high-efficiency particulate filtering.
  - Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying).
  - Consider warning properties before use.
  - Dust, mist, fume-purifying respiratory protection.
  - For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.
  - Respiratory protection is ranked in order from minimum to maximum.
  - Self-contained breathing apparatus with a corpuscle filter of high efficiency.
  - Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- ☐ **Eye protection**
  - Provide an emergency eye wash station and quick drench shower in the immediate work area.
  - Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- ☐ **Hand protection**
  - Wear appropriate chemical resistant glove.
- ☐ **Skin protection**
  - Wear appropriate chemical resistant protective clothing.
- ☐ **Others**
  - Not available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Solid (powder) (20°C)
- Color	Not available
B. Odor	Not available
C. Odor threshold	Not available
D. pH	Not available
E. Melting point / Freezing point	Not available
F. Initial boiling point / Boiling point	Not available
G. Flash point	No flash occurred under 110°C (Rapid equilibrium method)
H. Evaporation rate	Not available
I. Flammability (solid, gas)	Not available
J. Upper/Lower flammability or explosive limits	Not available
K. Vapour pressure	Not available
L. Solubility	Insoluble at 20°C
M. Vapour density	Not available
N. Specific gravity (Relative density)	0.54 (20°C)
O. Partition coefficient of n-octanol/water	Not available

P. Autoignition temperature	No spontaneous combustion under 500°C
Q. Decomposition temperature	Not available
R. Viscosity	Not available
S. Molecular weight	Not available

## 10. STABILITY AND REACTIVITY

### A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

### B. Possibility of hazardous reactions

- Not available

### C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid dust formation.

### D. Incompatible materials

- Strong oxidizing agents.

### E. Hazardous decomposition products

- Not available

## 11. TOXICOLOGICAL INFORMATION

### A. Information on the likely routes of exposure

#### ☐ Respiratory tracts

- Not available

#### ☐ Oral

- Not available

#### ☐ Eye-Skin

- Not available

### B. Delayed and immediate effects and also chronic effects from short and long term exposure

#### ☐ Acute toxicity

##### \* Oral

- Product (ATEmix) : 2000 mg/kg < ATEmix <= 5000 mg/kg
- [Silica] : LD50 = 3160 mg/kg Rat (TOMES; HAZARDTEXT)

##### \* Dermal

- Product (ATEmix) : > 5000 mg/kg
- [Silica] : LD50 > 5000 mg/kg Rabbit (ECHA)

##### \* Inhalation

- Product (ATEmix) : 5.0 mg/ℓ < ATEmix <= 12.5 mg/ℓ
- [Silica] : Dust LC50 5.01 mg/ℓ 4hr Rat (ECHA)

#### ☐ Skin corrosion/irritation

- [Silica] : Rabbit - mild irritation (ECHA)

#### ☐ Serious eye damage/irritation

- Not available

#### ☐ Respiratory sensitization

- Not available

#### ☐ Skin sensitization

- [Silica] : No sensitization (SIDS)

#### ☐ Carcinogenicity

##### \* IARC

- [Silica] : Group 3

##### \* OSHA

- Not available

##### \* ACGIH

- Not available

##### \* NTP

- Not available

##### \* EU CLP

- Not available

☐ **Germ cell mutagenicity**

- Not available

☐ **Reproductive toxicity**

- Not available

☐ **STOT-single exposure**

- Not available

☐ **STOT-repeated exposure**

- [Silica] : Quartz and cristobalite have been reported as silicosis in humans. The possibility of fiber formation in quartz and cristobalite was also reported in laboratory animals. Reported to have autoimmune disease, chronic kidney disease, etc. for quartz, target organs : lungs (ACGIH 7th, 2006), target organs : eyes, respiratory system (NIOSH, 2016)

☐ **Aspiration hazard**

- Not available

## 12. ECOLOGICAL INFORMATION

### A. Ecotoxicity

☐ **Fish**

- [Silica] : LC50 5000 mg/l 96hr (IUCLID)

☐ **Crustaceans**

- [Silica] : LC50 7600 mg/l 48hr (IUCLID)

☐ **Algae**

- [Silica] : EC50 440 mg/l 72hr (IUCLID)

### B. Persistence and degradability

☐ **Persistence**

- Not available

☐ **Degradability**

- Not available

### C. Bioaccumulative potential

☐ **Bioaccumulative potential**

- Not available

☐ **Biodegradation**

- Not available

### D. Mobility in soil

- Not available

### E. Other adverse effects

- Not available

## 13. DISPOSAL CONSIDERATIONS

### A. Disposal methods

- It shall be treated by incineration.
- Oil water separation technology shall be applied as pre-waste treatment if it is applicable.
- Minimize the discharge of waste by minimizing the generation of waste and recycling the generated waste by itself.
- Do reclamation at the management-type reclamation facility that can be reclaimed the designated waste.
- Perform stabilizing treatment.
- Perform solidification treatment with cement and high molecule compounds or a similar method.

### B. Special precautions for disposal

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act.
- Dispose of waste in accordance with all applicable laws and regulations.

## 14. TRANSPORT INFORMATION

### A. UN No. (IMDG CODE/IATA DGR)

- Not applicable

### B. Proper shipping name

- Not applicable

#### **C. Hazard Class**

- Not applicable

#### **D. IMDG CODE/IATA DGR Packing group**

- Not applicable

#### **E. Marine pollutant**

- Not applicable

#### **F. Special precautions for user related to transport or transportation measures**

- Air transport (IATA): Not subject to IATA regulations.
- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available

### **15. REGULATORY INFORMATION**

#### **A. National and/or international regulatory information**

##### **○ POPs Management Law**

- [Silica] : Not applicable

##### **○ Information of EU Classification**

###### **\* Classification**

- Not applicable

##### **○ U.S. Federal regulations**

###### **\* OSHA PROCESS SAFETY (29 CFR 1910.119)**

- Not applicable

###### **\* CERCLA Section 103 (40 CFR 302.4)**

- Not applicable

###### **\* EPCRA Section 302 (40 CFR 355.30)**

- Not applicable

###### **\* EPCRA Section 304 (40 CFR 355.40)**

- Not applicable

###### **\* EPCRA Section 313 (40 CFR 372.65)**

- Not applicable

##### **○ Rotterdam Convention listed ingredients**

- Not applicable

##### **○ Stockholm Convention listed ingredients**

- Not applicable

##### **○ Montreal Protocol listed ingredients**

- Not applicable

### **16. OTHER INFORMATION**

#### **A. Reference**

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- This Safety Data Sheet was compiled with data and information from the following sources : Manufacturer's SDS, KOSHA, NITE, ECHA, NLM, SIDS, IPCS, etc.

#### **B. Issue date**

- 2012-11-26

#### **C. Revision number and Last date revised**

- Revision number: 1
- Revision date: 2021-12-17

#### **D. Other**

- This SDS is prepared according to the Globally Harmonized System (GHS).