

# Material Safety Data Sheet

## 1. Product and company identification

### 1) Product name : STONIA TM (Solid Surface)

- Advisable use : Construction Materials
- Restriction of product using : N/A

### 2) Manufacturer

- Company : SNOGEN CORPORATION
- Address : 35-1, Haengjung-ri, Kwangduk-myun, Cheonan-si, Chungcheongnam-do, Korea
- Emergency response number : 82-41-553-8001
- Respondent: R&D Team Manager : Booki Choi

### 3) Supplier/Distributor information

- Company : SAMSUNG INTERIOR
- Address : 19w Nguyen Huu Canh, Binh Thanh District, HCM city, Vietnam
- Emergency response number : 028 3 7447 333 - 090 2580 097

## 2. Hazard identification

### 1) GHS classification of the substance:

### 2) GHS label elements, including precautionary statements

- |                         |                             |
|-------------------------|-----------------------------|
| ○ Pictogram and symbol: | ○ Precautionary statements: |
| ○ Signal word: N/A      | - Precaution: Storage :     |
| ○ Hazard statements:    | - Treatment: Disposal :     |

### 3) Other hazard information not included in hazard classification

- NFPA : - Health: 0, Fire: 0, Reactive: 0

## 3. Composition/information on ingredients

Chemical name	Common name synonyms	CAS No.	Content (%)
Polymethyl Methacrylate		9011-14-7	40-45
Aluminum Hydroxide		21645-51-2	55~60
Other Additives			0.5~1.0

## 4. First aid measures

### 1) Eye contact :

- Flush eyes Immediately with large amounts of water for a minimum of minutes. Medical treatment should be done by qualified doctor.

### 2) Skin contact :

- This would be a problem, but may cause skin sensitization.
- Simply wash the contaminated skin with running water.

- Medical treatment can be consulted, if necessary.

### **3) Inhalation :**

- Remove to fresh air, if necessary, victim should be taken to well ventilated area. Medical treatment should be followed by a case.

### **4) Ingestion :**

- N/A.

### **5) Notes for Physician :**

- No additional information

## **5. Fire fighting measures**

### **1) Suitable (and unsuitable) extinguishing media**

- o Suitable extinguishing media: CO<sub>2</sub>, alcohol-resistant foam or water spray extinguishment by smothering : Not available.
- o Large fires
- Vast amount of digestive downwind form of medicine or spray mist on the water.
- Depending on the proper use of fire protection.

### **2) Specific hazards arising from the chemical**

- o Thermal decomposition products
  - Burning may produce the following combustion product: CO<sub>2</sub>, Oxides of carbon, Hydrocarbon
- o Fires or explosion
  - Not available.

### **3) Special protective equipment and precautions for fire-fighters**

- o Necessary to wear safe protective equipment like fireproof clothing, boots, gloves, breathing equipment.
- o Extinguish fire keeping safe distance from fire area.
- o Do not inhale the substance itself or the burning artifact.
- o For disposal of fire fighting water, dig a ditch and store it in the ditch.
- o If not dangerous, move the vessel from fire area.

## **6. Accidental release measures**

### **1) Personal precautions, protective equipment and emergency procedures**

- Avoid contact with skin.
- Leak immediately, prevent using proper protective equipment.
- Wear positive pressure clothing that is specifically recommended by the manufacturer.

### **2) Environmental precautions and protective procedures**

- Underwater : Prevent entry into waterways, sewers, basements or confined areas

### **3) The methods of purification and removal**

- o Small spill
- Absorb or cover with sand or other non-combustible material and remove.
- Transfer to appropriate containers for post-treatment.
- Use clean non-sparking tools to collect absorbed material.
- All equipment used when handling the product must be grounded.

- Large spill
- Make an embankment for further processing.
- Remove all sources of ignition.
- Keep unauthorized personnel away.
- When spilled over limited quantities, inform central government and local self-government.

## **7. Handling and storage**

### **1) Precautions for safe handling**

- Do not eat, drink or smoke in product area.
- Avoid contact with skin, eyes and cloths.
- Do not breathe gas/fumes/ vapour/spray.

### **2) Conditions for safe storage**

- Store at below 50C avoiding direct sunlight.
- Do not eat, drink or smoke in product area.
- Keep away from food and feedstuffs.

## **8. Exposure controls/personal protection**

### **1) Occupational Exposure limits**

- KOREA TWA : N/A
- ACGIH TWA : N/A
- Biological Exposure Index : N/A

### **2) Appropriate engineering controls**

- Provide blaster resistance equipment at ventilation system if when explosive risk.

### **3) Personal protective equipment**

- Respiratory organ protection: Use ventilation to keep the good air at fabrication place
- Eye protection: Wear Safety glasses.
- Hand protection: Wear safety gloves.
- Body protection: Wear Safety Clothes.

## **9. Physical and chemical properties**

- 1) Appearance : Solid Sheet
- 2) Odor : No odor
- 3) Threshold of odor : N/A
- 4) pH(10% Sol'n, at 25°C) : N/A
- 5) Melting point/freezing point : N/A
- 6) Initial boiling point and boiling point : N/A
- 7) Flash point : N/A
- 8) Evaporation rate : N/A
- 9) Flammability (Solid.Gas) : N/A
- 10) Upper/lower flammability or explosive  
Limits : Upper exp. Limit: N/A. Lower exp. Limit: N/A
- 11) Vapor pressure : N/A
- 12) Solubility(ies) : Insoluble

- 13) Vapor density : N/A
- 14) Specific gravity : 1.6~1.8
- 15) n-octanol/water partition coefficient : N/A
- 16) Auto ignition temperature : N/A
- 17) Degradation temperature : N/A
- 18) Viscosity : N/A
- 19) Molecular weight : N/A

## **10. Stability and reactivity**

### **1) Chemical stability**

- Stable in high temperature and pressure

### **2) Possibility of hazardous reactions**

- Not available

### **3) Conditions to avoid**

- Avoid Strong acid, Oxidizing accelerator.

### **4) Hazardous decomposition product**

- Burning may produce the following combustion product: Irritative/Toxic gas, Oxides of carbon, Hydrocarbon

## **11. Toxicological information**

### **1) Information on the likely routes of exposure**

- Through respiratory inhalation
  - Short-term impact : No information is available
  - The long-term effects : No information is available.
- Ingestion
  - Short-term impact : No information is available.
  - The long-term effects : No information is available.
- Skin contact
  - Short-term impact : No information is available t
  - The long-term effects : No information is available.
- Skin contact
  - Short-term impact : No information is available
  - The long-term effects : No information is available.

### **2) Delay by short term and long term exposures, acute and chronic effect**

- Acute toxicity
  - Oral : N/A
  - Dermal : N/A
  - Inhalation : N/A
- Skin Corrosion/ Irritation: No Irritation
- Serious Eye Damage/ Irritation: N/A
- Respiratory sensitizer: N/A

- Skin Sensitization: Not classified
  - Carcinogenicity : Not classified
    - KOREAN OCCUPATION SAFETY AND HEALTH ACTS, : Not classified
    - IARC : Not classified
    - OSHA : Not classified
    - ACGIH : Not classified
    - NPT : Not classified
    - EU CLP : Not classified
  - Mutagenicity : Not classified
  - Reproductive toxicity : Not classified
  - Specific target organ toxicity (repeat exposure): Not classified
- Aspiration hazard: N/A

## **12. Ecological Information**

### **1) Aquatic Ecotoxicity**

- Fish : N/A
- Crustacea : N/A
- Algae : N/A

### **2) Persistence and degradability**

- Persistence : N/A
- Degradability : N/A

### **3) Bioaccumulative potential : N/A**

- Biodegradation : N/A
- Bioaccumulation : N/A

### **4) Mobility in soil : N/A**

## **13. Disposal considerations**

### **1) Disposal method**

- No special remark, but by reasonable way to take care of waste

### **2) Disposal precaution**

- Consider the require attention in accordance with waste treatment management regulation

## **14. Transport information**

- 1) UN Number : Not classified
- 2) UN Proper shipping name : Not classified
- 3) Transport Hazard class : Not classified
- 4) Packing group : Not classified
- 5) Marine pollutant : Not listed
- 6) Special safety response for transportation or transportation measure
  - Emergency schedule for fire: N/A
  - Emergency schedule for spillage: N/A

## 15. Regulatory information

- Korea
  - Korea Occupational Safety and Health Regulation : Not listed
  - Toxic Chemical Control Act. : Not listed
  - Dangerous Material Safety Management Regulation : Not listed
  - Waste Control Act : Not listed
- EU Classification
  - Classification: Not listed
  - Risk phrases : Not listed
  - Safety phrases : Not listed
- U.S.A. management information
  - OSHA regulation (29CFR1910.119) : Not listed
  - CERCLA 103 regulation (40CFR302.4) : Not listed
  - EPCRA 302 regulation (40CFR355.30) : Not listed
  - EPCRA 304 regulation (40CFR355.40) : Not listed
  - SARA 313 regulation (40CFR372.65) : Not listed
- Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade : Not listed
- Stockholm Convention on Persistent Organic Pollutants (POPs) : Not listed
- Montreal Protocol on Substances that Deplete the Ozone Layer : Not listed

## 16. Other information

### 1) Information source and references:

- Korea Occupational Health & Safety Agency: <http://www.kosha.net>
- Korea dangerous material inventory management system (<http://hazmat.nema.go.kr>)
- EPA (<http://cfpub.epa.gov/ecotox>)
- GHS (Global Harmonized System of classification and labeling of chemical)
- International Uniform Chemical Information Database (IUCLID) (<http://ecb.jrc.it/esis>)
- NIOSH (The National Institute for Occupational Safety and Health)
- ACGIH (American Conference of Governmental Industrial Hygienists)
- EINECS (European Inventory of Existing Commercial chemical Substances)

2) Issue date : 2016. 09. 03.

3) Revision number and date :

4) Other material safety data sheet information: N/A