



STONIA TM Solid Surface

1. Product and company identification

- 1) Product name : STONIA TM(Solid Surface)
 - Advisable use : Construction Materials
 - Restriction of product using : N/A
- 3) Manufacturer/Supplier/Distributor information
 - 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 : June Hyung Lee

2. Hazard identification

- 1) GHS classification of the substance:
- 2) GHS label elements, including precautionary statements
 - Pictogram and symbol:
 - Signal word: N/A
 - Hazard statements:
 - Precautionary statements:
 - Precaution:
 - Treatment:
 - Storage :
 - 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 15minutes. 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

- suitable extinguishing media: CO₂, alcohol-resistant foam or water spray
- extinguishment by smothering : Not available.
- 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

- Thermal decomposition products
 - Burning may produce the following combustion product: CO₂, Oxides of carbon, Hydrocarbon
- Fires or explosion
 - Not available.

3) Special protective equipment and precautions for fire-fighters

- Necessary to wear safe protective equipment like fireproof clothing, boots, gloves, breathing equipment.
- Extinguish fire keeping safe distance from fire area.

- Do not inhale the substance itself or the burning artifact.
- For disposal of fire fighting water, dig a ditch and store it in the ditch.
- 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
 - 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 SAFTY 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 (IUCRID) (<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