

Product Name : ZEOMIC AW10D
 MSDS No. : EA-0062
 Revision Date : August 17, 2010

MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name : ZEOMIC AW10D
Company Name : Sinanen Zeomic Co., Ltd.
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MSDS Number : EA-0062

2. Hazards Identification

Emergency overview : Can cause eye and respiratory tract irritation upon repetitive or prolonged exposure.
GHS classification : Not applicable

3. Composition, Information on Ingredients

Chemical Name : Aluminosilicate
Chemical formula : $M_{2/n}O-Al_2O_3-2SiO_2-XH_2O$
 (**M**: Ag, Zn, NH₃, Na; **n**: valence of M; **X**: integral number)
Japanese Chemical Regulation, MITI number (as single substance) : 1-508 as sodium silicate; 1-23 as aluminum oxide; 1-9 as silver
 II oxide and 1-561 as zinc oxide, but do not exist as the simple substance.
CAS number : 1318-02-1
HS Code. : 2842.10
Single or mixture product : Single

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4. First Aid Measures

- Eye contact** : Immediately flush with water; obtain medical attention if prolonged feeling of foreign body.
- Skin contact** : Wash exposed area with soap and water.
Obtain medical attention if irritation develops.
- Inhalation** : Remove to fresh air area, and gargle with plenty of water.
Obtain medical attention for any breathing difficulty.
- Ingestion** : Gargle with plenty of water. Get medical attention.

5. Fire Fighting Measures

- Means for extinguishing** : Not flammable and will not support combustion.

6. Accidental Release Measures

Use a vacuum to clean up spillage. Avoid excessive dust generation. Use gentle water spray to wet down and minimize dust generation. Use respiratory protection as mentioned in informative 8. Do not wash to sewer or waterway. Prevent entry into waterways, sewers, basements or confined areas. Put the material into a convenient waste disposal container and dispose according informative 13. Prevent secondary contamination avoiding dust diffusion.

7. Handling and Storage

- Handling** : Avoid generating dust during transportation. Keep containers closed when not used.
- Storage** : High hygroscopic material, store under closed and tight-shielded condition into the original container when not used. Avoid abuse of the containers.

8. Exposure Controls/Personal Protection

- Facility measures** : Local exhaust ventilation to avoid dust emission inhalation
- Concentration to be managed** : Not applicable
- Allowable exposure concentration** : Not applicable

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Protective materials

Inhalation : Wear a respiratory face mask
Eyes : Wear protective glasses
Hand : Wear protective gloves
Body : Wear protective clothing

9. Physical and Chemical Properties

Appearance and odor : White powder, odorless. High hygroscopic.
pH (1wt% water solution) : 9.0±1.0
Ignition point : nonflammable
Specific gravity
True specific gravity : 2 g/cm³ (20C degrees)
Bulk specific gravity : 0.4 g/cm³ (20C degrees)
Solubility : Insoluble in water

10. Stability and Reactivity

Chemical Stability : Stable
Reactivity : Not instance reported
Hazardous statement : Not instance reported

11. Toxicological Information

Acute toxicity : Rat Oral: LD₅₀>5000mg/kg
: Rat Dermal: LD₅₀>2000mg/kg
Skin irritation : Negative
Skin sensitization : Negative
Chronic toxicity : NOEL: 0.011g/kg body weight/day
Acute inhalation toxicity : Rat Inhalation LC₅₀>2.68mg/L
Carcinogenicity : Negative
Mutagenicity : Negative
Teratogenicity : None reported
Reproductive toxicity : None reported

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12. Ecological Information

Soil Mobility : Not instance reported
Persistence / Degradation : Not instance reported
Bioaccumulation : Not instance reported
Acute hazardous to the aquatic environment : Rainbow trout LC₅₀(96hrs) 16.9mg/L

13. Disposal Information

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused containers in compliance with local or regional laws and regulations.

14. Transportation Information

International Regulations

UN Class • UN # : Not regulated
Sea transportation : Not regulated
Air transportation : Not regulated

Domestic Regulations

Ground transportation : Not regulated
Sea transportation : Not regulated
Air transportation : Not regulated

Additional information for safety transport : Use strong well-sealed containers and avoid direct sun light exposure, physical damage, corrosion, leakage, crumble.
Keep attention to water and moisture.

15. Regulatory Information

Japan laws regarding to disposal of waste material and cleaning operation.

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16. Other information

None

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