



# Synthetic Magnesium Silicate Adsorbent

## 1. Chemical Product and Supplier Identification

### Product Name

☞ Synthetic Magnesium Silicate

### Manufacturer

☞ Shangyu Jiehua Chemical Co., Ltd.

☞ Hangzhou Gulf Fine Chemical Zone, Shangyu, Zhejiang 312369, China

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### MSDS Number

☞ JHSMS-01-01

### Effective Date

☞ January 1, 2006

## 2. Composition/Information on Ingredients

Ingredients	Chemical Formula	CAS No.	Percentage
Synthetic Magnesium Silicate	2MgO.6SiO <sub>2</sub> .nH <sub>2</sub> O	1343-88-0	Min.90.0

## 3. Hazards Identification

### Emergency Overview

☞ Caution! May cause irritation to skin, eyes, and respiratory tract.

### Potential Health Effects

- ☞ Inhalation..... May cause dryness and irritation to mucous membranes, throat.
- ☞ Eye contact..... No adverse effects expected but dust may cause mechanical irritation.
- ☞ Skin contact..... May cause skin irritation with dryness and abrasion.
- ☞ Ingestion..... No adverse effects expected.

## 4. First-aid Measures

- ☞ Inhalation..... Remove affected person to fresh air. Seek medical attention if effects persist.
- ☞ Eye contact..... Flush eyes with running water for 15 minutes with eyelids held open. Seek specialist advice.
- ☞ Skin contact..... Wash affected skin with soap and mild detergent and large amounts of water.
- ☞ Ingestion..... If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not inducing vomiting.

## 5. Fire Fighting Measure

### Flash Point



- ☞ Not applicable

#### **Flammability**

- ☞ Not applicable

#### **Ignition Temperature**

- ☞ Not applicable

#### **Danger of Explosion**

- ☞ Non-explosive

#### **Extinguishing Media**

- ☞ Water

#### **Fire Hazards**

- ☞ Not considered to be a fire hazard

#### **Fire-Fighting Measures**

- ☞ Evacuate all non-essential personnel
- ☞ Wear protective clothing and self-contained breathing apparatus
- ☞ Remain upwind of fire to avoid hazardous vapors and decomposition products
- ☞ Use water spray to cool fire-exposed containers

## **6. Accidental Release Measures**

### **Spill Clean-up Procedures**

- ☞ Eliminate all sources of ignition. Evacuate unprotected personnel from equipment recommendations found in Section 8. Never exceed any occupational exposure limit.
- ☞ Shovel or sweep material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to inventory.
- ☞ Flush remaining area with water to remove trace residue and dispose of properly. Notify authorities if entry occurs.

## **7. Handling and Storage**

### **Storage**

- ☞ Store in a dry, well ventilated area away from all source of ignition and out of direct sunlight. Keep container closed.
- ☞ Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Never return unused product to storage container.
- ☞ Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap. Ensure pressure relief and adequate ventilation.
- ☞ Store separately from organics and reducing materials.

### **Handling**

- ☞ Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
- ☞ Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- ☞ Prevent contact with combustible or organic materials.
- ☞ Label containers and keep them tightly closed when not in use.
- ☞ Wash thoroughly after handling.



## 8. Exposure Controls/Personal Protection

### Engineering Controls

- ☞ General room ventilation is required. Local exhaust ventilation, process enclosures or other engineers controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

### Respiratory Protection

- ☞ For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres or when exposures exceed limit values, wear a NIOSH approved respirator.

### Eye/Face Protection

- ☞ Wear chemical safety goggles and a full face shield while handling this product.

### Skin Protection

- ☞ Prevent contact with this product. Wear gloves and protective clothing depending on condition of use.

### Other Protective Equipment

- ☞ Eye-wash station
- ☞ Safety shower
- ☞ Impervious clothing
- ☞ Rubber boots

### General Hygiene Considerations

- ☞ Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

## 9. Physical and Chemical Properties

Appearance:	White powder with good fluidity
Odor:	None
Loss on Drying (105 °C,2h),%:	6~8
Solubility:	Insoluble in water
PH, 3% Solution:	9~11

## 10. Stability and Reactivity

### Stability

- ☞ Stable under normal conditions

### Conditions to Avoid

- ☞ Strong oxidizers
- ☞ Hydrogen fluoride

### Hazardous Decomposition Products

- ☞ No information available



## 11. Toxicological Information

- ☞ No specific data

## 12. Ecological Information

- ☞ No information found

## 13. Disposal Considerations

### Waste Treatment

- ☞ Dispose of in an approved waste facility operated by an authorized contractor in compliance with local regulations.

### Package Treatment

- ☞ The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

## 14. Transport Information

- ☞ Proper Shipping Name: Synthetic Magnesium Silicate
- ☞ UN Number: Not applicable
- ☞ Hazard Class: Not regulated
- ☞ Labels: No information available
- ☞ Packing Group: Not regulated

## 15. Regulatory Information

SARA Section.....	No
SARA (313) Chemicals.....	No
EPA TSCA Inventory.....	Appears
Canadian WHMIS Classification.....	D2B
Canadian DSL.....	Appears
Clean Air Act.....	Non-pollutant
Clean Water Act.....	Non listed

## 16. Other Information

### Disclaimer

- ☞ The data in this Material Safety Data Sheet is believed to be correct. However, since conditions of use are outside our control it should not taken as a warranty of representation for which Shangyu Jiehua Chemical Co., Ltd. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.