



## SDS Report

No.: CANHG1318174901 Date: 29 Nov 2013

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PHOMI MCM CO., LTD.  
112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA 511495

SGS Job No. : GZHG1311042561OT  
Sample Name : Modified clay material  
Other names: Unfired clay material, Modified inorganic powder composite building decorative material, MCM Flexi Clay, MCM  
End Uses : internal/external cladding and flooring  
Composition/Ingredient of sample (as per client submission) : See *Section 3 Composition/information on ingredients* on the SDS report  
Job Receiving Date : 21 Nov 2013  
Last Information Date : 26 Nov 2013  
SDS Preparation Period : 21 Nov 2013 – 29 Nov 2013

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010, and is provided per attached.

### Remark:

The SDS is prepared based on the information provided by client.

\* This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

Signed for and on behalf of  
SGS-CSTC Ltd.

Oscar Wang  
Approved Signatory

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# Safety Data Sheet

## 1907/2006/EC, 1272/2008/EC

Printing date 29.11.2013

Revision: 28.11.2013

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Modified clay material  
     **Other names:** Unfired clay material, Modified inorganic powder composite building decorative material, MCM Flexi Clay, MCM
- **Registration number:** Not available
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** internal/external cladding and flooring
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** PHOMI MCM CO., LTD.
- **Full address:** 112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA 511495
- **Phone number:** +86-20-84515088
- **FAX:** +86-20-34632196
- **Only Representative / other EU contact point:**  
     Buyer is not located in European Union. European Union Member State contact not available.
- **Further information obtainable from:** PHOMI MCM CO., LTD.
- **Emergency telephone number:** Miss Su 13928802516
- **Email:** 986956828@qq.com
- **Reference Number:** GZHG1311042561OT, CANHG1318174901
- **Remark:**  
     \* This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

### SECTION 2: Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

STOT RE 2    H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Xi; Irritant

R36/38: Irritating to eyes and skin.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of Directive 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008.

- **Classification system:**

The classification is according to the latest edition of the Directive 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008, and extended by company and literature data.

- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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**· Hazard pictograms**

GHS05 GHS08

**· Signal word** Danger**· Hazard-determining components of labelling:**

Polyacrylic acid

Quartz (SiO<sub>2</sub>)**· Hazard statements**

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**· Chemical characterization: Mixtures****· Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of listed risk phrases refer to section 16.

**· Dangerous components:**

|                                                                |                                                                                                                  |            |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------|
| CAS: 14808-60-7<br>EINECS: 238-878-4                           | Quartz (SiO <sub>2</sub> )<br>Xn R48/20<br>STOT RE 2, H373                                                       | 40,0-45,0% |
| CAS: 9003-01-4                                                 | Polyacrylic acid<br>C R34<br>Skin Corr. 1B, H314                                                                 | 2,0-5,0%   |
| CAS: 2530-85-0<br>EINECS: 219-785-8<br>EU number: 607-134-00-4 | 3-trimethoxysilylpropyl methacrylate<br>Xi R36/37/38<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 0,15%      |

**· Non-dangerous components:**

|                                        |                   |            |
|----------------------------------------|-------------------|------------|
| CAS: 1332-58-7<br>EC number: 310-194-1 | Kaolin            | 50,0-56,0% |
| CAS: 9002-89-5                         | Polyvinyl alcohol | 0,15%      |

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**· Remark:***Quartz (SiO<sub>2</sub>) (CAS: 14808-60-7)**Note: crystalline silica (Quartz)**3-trimethoxysilylpropyl methacrylate (CAS: 2530-85-0)**Note: silane coupling agent KH570**Kaolin (CAS: 1332-58-7)**Note: clay**Polyvinyl alcohol (CAS: 9002-89-5)**Note: PVA fiber***SECTION 4: First aid measures****· Description of first aid measures****· After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.***· After skin contact:** *Immediately wash with water and soap and rinse thoroughly.***· After eye contact:***Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.***· After swallowing:** *If symptoms persist consult doctor.***· Information for doctor****· Most important symptoms and effects, both acute and delayed:** *No further relevant information available.***· Indication of any immediate medical attention and special treatment needed:***No further relevant information available.***SECTION 5: Firefighting measures****· Extinguishing media****· Suitable extinguishing agents:***CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***· Special hazards arising from the substance or mixture:** *No further relevant information available.***· Advice for firefighters****· Protective equipment:** *No special measures required.***SECTION 6: Accidental release measures****· Personal precautions, protective equipment and emergency procedures:** *Not required.***· Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.***· Methods and material for containment and cleaning up:***Dispose contaminated material as waste according to item 13.***· Reference to other sections:***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***SECTION 7: Handling and storage****· Handling****· Precautions for safe handling:** *Prevent formation of dust.***· Information about fire - and explosion protection:** *No special measures required.*

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- **Storage:**
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s):** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

|                                       |
|---------------------------------------|
| 14808-60-7 Quartz (SiO <sub>2</sub> ) |
|---------------------------------------|

|                                        |
|----------------------------------------|
| MAK (Germany) alveolengängige Fraktion |
|----------------------------------------|

- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:***Tightly sealed goggles*

### SECTION 9: Physical and chemical properties

· **Information on basic physical and chemical properties**· **General information**· **Appearance**

|                           |                              |
|---------------------------|------------------------------|
| · <b>Form:</b>            | <i>Sheet, panel, bulk</i>    |
| · <b>Colour:</b>          | <i>Depends on clay color</i> |
| · <b>Odour:</b>           | <i>Odourless</i>             |
| · <b>Odour threshold:</b> | <i>Not available</i>         |

· **pH-value:** *Not available*· **Change in condition**· **Melting point/Melting range:** *Not available*· **Boiling point/Boiling range:** *Not available*· **Freezing point:** *Not available*· **Flash point:** *Not available*· **Flammability (solid, gaseous):** *Product is not flammable.*· **Auto-Ignition temperature:** *Not available*· **Decomposition temperature:** *Not available*· **Self-igniting:** *Product is not selfigniting.*· **Explosive properties:** *Product does not present an explosion hazard.*· **Explosion limits**· **Lower:** *Not available*· **Upper:** *Not available*· **Oxidizing properties:** *Not available*· **Vapour pressure:** *Not available*· **Density:** *1,40-2,20 g/cm<sup>3</sup>*· **Relative density:** *Not available*· **Vapour density:** *Not available*· **Evaporation rate:** *Not available*· **Solubility in / Miscibility with water:***Insoluble.*· **Partition coefficient (n-octanol/water):** *Not available.*· **Viscosity**· **Dynamic:** *Not available.*· **Kinematic:** *Not available*· **Other information:** *No further relevant information available.*

### SECTION 10: Stability and reactivity

· **Reactivity:** *Stable under ordinary condition.*

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- **Chemical stability:** Stable under ordinary condition.

- **Possibility of hazardous reactions:**

*Inhalation:*

Acute effects - Dust may cause irritation of the nose, throat, and airways, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial air ways) on inhaling dust during sanding or sawing operations.

Chronic Effects - Repeated and prolonged overexposures to dust containing crystalline silica can cause silicosis (scarring of the lung) and increases the risk of bronchitis, tuberculosis, lung cancer, renal disease, and scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels, and internal organs). Some studies suggest that cigarette smoking increases the risk of silicosis, bronchitis and lung cancer in persons also exposed to crystalline silica.

Acute silicosis - a sub - chronic disease associated with a cute, massive silica exposure, is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include, but are not limited to, shortness of breath, cough, fever, weight loss and chest pain. Such exposure may cause pneumoconiosis and pulmonary fibrosis.

*Ingestion:*

Unlikely under normal conditions of use, but swallowing the dust from this product may result in - irritation or damage to the mouth and gastrointestinal tract due to alkalinity of dust.

*Eye:*

Dust may irritate the eyes from mechanical abrasion causing watering and redness.

*Skin:*

Dust may cause irritation of the skin from friction but cannot be absorbed through intact skin.

- **Conditions to avoid:** No further relevant information available.

- **Incompatible materials:** No further relevant information available.

- **Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **Information on toxicological effects**

- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

**9002-89-5 Polyvinyl alcohol**

|      |      |                     |
|------|------|---------------------|
| Oral | LD50 | 14270 mg/kg (mouse) |
|      |      | 23854 mg/kg (rat)   |

- **Primary irritant effect**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

- **Toxicokinetics, metabolism and distribution:** No further relevant information available

- **Acute effects (acute toxicity, irritation and corrosivity):** No further relevant information available

- **Repeated dose toxicity:** No further relevant information available.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**  
No further relevant information available.

### SECTION 12: Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behaviour in environmental systems:** No further relevant information available
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### SECTION 13: Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |                                                                                     |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
| · <b>UN-Number</b>                                                                  |                                                 |
| · <b>ADR, IMDG, IATA</b>                                                            | UN1759                                          |
| · <b>UN proper shipping name</b>                                                    |                                                 |
| · <b>ADR</b>                                                                        | 1759 CORROSIVE SOLID, N.O.S. (Polyacrylic acid) |
| · <b>IMDG, IATA</b>                                                                 | CORROSIVE SOLID, N.O.S. (Polyacrylic acid)      |
| · <b>Transport hazard class(es)</b>                                                 |                                                 |
| · <b>ADR, IMDG, IATA</b>                                                            |                                                 |
|  |                                                 |
| · <b>Class</b>                                                                      | 8 Corrosive substances.                         |
| · <b>Label</b>                                                                      | 8                                               |
| · <b>Packing group</b>                                                              |                                                 |
| · <b>ADR, IMDG, IATA</b>                                                            | III                                             |
| · <b>Environmental hazards</b>                                                      |                                                 |
| · <b>Marine pollutant:</b>                                                          | No                                              |

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|                                                                                   |                                                            |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|
| · <b>Special precautions for user:</b>                                            | Warning: Corrosive substances.                             |
| · <b>Danger code (Kemler):</b>                                                    | 80                                                         |
| · <b>EMS Number:</b>                                                              | F-A,S-B                                                    |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable.                                            |
| · <b>Transport/Additional information:</b>                                        |                                                            |
| · <b>ADR</b>                                                                      |                                                            |
| · <b>Limited quantities (LQ):</b>                                                 | 5 kg                                                       |
| · <b>Transport category:</b>                                                      | 3                                                          |
| · <b>Tunnel restriction code:</b>                                                 | E                                                          |
| · <b>UN "Model Regulation":</b>                                                   | UN1759, CORROSIVE SOLID, N.O.S. (Polyacrylic acid), 8, III |

### SECTION 15: Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **MAK(German Maximum Workplace Concentration)**14808-60-7 Quartz (SiO<sub>2</sub>)

1

· **National regulations**· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **Other regulations, limitations and prohibitive regulations**· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (20/6/2013)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (13/2/2013)** None of the ingredients is listed· **REACH Regulation Annex XIV Authorisation List (17/4/2013)** None of the ingredients is listed· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

· **Relevant phrases**

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

R34 Causes burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

\*\*\*\*\*

The contents and format of this SDS are in accordance with REGULATION (EC) No. 1272/2008, (EC) No. 1907/2006, REGULATION (EU) No. 453/2010 and EU Commission Directive 1999/45/EC, 67/548/EEC.

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Remark:

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\*\*\*\*\*

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\*\*\*\*\*

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