

# MATERIAL SAFE DATA SHEET

## 1 Product and company identification

Trade name : FIVE STAR CONSTRUCTION GROUT

Company : AGE INDUSTRIES & TRADING SDN BHD  
No. 67, Jalan 30A/119,  
Taman Taynton View,  
56000 Kuala Lumpur.

Telephone no.: 60 3 9130 7563

Use : The product is intended for use in the building and construction industry and should be used only by trained personnel.

## 2 Composition

A blend of Portland cement (CAS no. 65997-15-1) graded silica sands (CAS no. 14808-60-7) together with small quantities of other additives.

## 3 Hazards identification

Mixing with water or contact of powder with body fluids produces a strongly alkaline solution. This may cause serious burns and ulceration both to the skin and eyes

## 4 First aid measures

**Skin contact** Wash the affected area thoroughly with soap and water. If irritation continues seek medical advice. Clothing contaminated with wet product should be removed and washed thoroughly before re-use.

**Eye contact** Wash eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice without delay.

**Inhalation** Move affected person to fresh air. If nose or airways become inflamed seek medical attention.

**Ingestion** If swallowing has occurred do not induce vomiting. Give person plenty of water to drink. Seek medical attention.

## 5 Fire fighting measures

The product is not flammable and will not facilitate combustion of other materials.

### Exposure hazards

Do not release water contaminated with cement-based products into surface water drains.

## 6 Accidental release measures

### Personal precautions

Avoid contact with skin, eyes and clothing. Avoid breathing dust.

### Environmental precautions

Prevent contamination of surface water.

### Methods for cleaning

Recover spillage in dry state if possible. Minimise generation of airborne dust. The product can be slurried with water. Keep children away from clean-up operations. Dispose to a place authorized to accept builders' waste. Small quantities can be disposed of as normal household waste.

## 7 Handling and storage

### Handling

When handling bags which weigh 25kg, due regard should be paid to '*Manual Handling Operations Regulations 1992*'.

Some bags may have a small amount of cement dust on their outer surface. Appropriate personal protection should be used whilst handling.

### Storage

Bags should be stacked in a safe and stable manner. Store in dry conditions.

## 8 Exposure controls and personal protection

### Technical protective measures

No special measures required.

### Exposure limits

Occupational Exposure Standard (OES) Limits 8 hour TWA (According to EH40/95).

The product contains powders which if handled carelessly can raise dust.

The personal exposure to such dusts (cement, silica sand, etc.) must be kept below 10mg/m<sup>3</sup> 8 hour TWA total inhalable dust and 3mg/m<sup>3</sup> respirable dust.

The product may contain small amount of microsilica which is an amorphous form of silica. The personal exposure level to amorphous silica must be kept below 6mg/m<sup>3</sup> 8 hour TWA total inhalable dust and 3mg/m<sup>3</sup> respirable dust.

Some sands and other fillers may contain small quantities of respirable silica for which the personal exposure must be kept below 0.4mg/m<sup>3</sup> 8 hour TWA. If care is taken not to rise dust and the exposure levels for nuisance dusts are not exceeded, the levels for respirable silica should be very low.

|                  |                      |                         |
|------------------|----------------------|-------------------------|
| Amorphous silica | Total inhalable dust | : 6mg/m <sup>3</sup> .  |
|                  | Respirable dust      | : 3mg/m <sup>3</sup> .  |
| Portland cement  | Total inhalable dust | : 10mg/m <sup>3</sup> . |
|                  | Respirable dust      | : 4mg/m <sup>3</sup> .  |

**Respiratory protection**

Suitable respiratory protection should be worn to ensure that personal OES is not exceeded. If care is taken not to raise dust during handling the use of respirators is not normally necessary.

**Hand protection**

Wear suitable gloves.

**Eye protection**

Suitable goggles or face protection should be worn wherever there is a risk of product powder or product/water mixture entering the eye.

**Skin protection**

Wear overalls and closed footwear.

**9 Physical and chemical properties**

|   |                            |
|---|----------------------------|
| Physical state                          | Particulate                |
| Particle size                           | 5 – 600 micron             |
| Specific gravity (H <sub>2</sub> O = 1) | 2.7                        |
| pH                                      | pH of wet cement : 12 – 14 |
| Boiling point (°C)                      | N/A                        |
| Melting point (°C)                      | N/A                        |
| Vapour pressure (mm Hg)                 | N/A                        |
| Vapour density (Air = 1)                | N/A                        |
| Evaporation rate (Butyl Acetate = 1)    | None                       |
| Solubility in water                     | Negligible                 |
| Odor                                    | No odor                    |

**10 Stability and reactivity**

Stable under normal room temperature storage conditions. Bags will set solid if continually soaked with water.

**11 Toxicological information**

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Cement constituent is severe eye irritant. Mild exposures can cause soreness. Gross exposures or untreated mild-exposures can lead to chemical burning and ulceration of the eye.         |
| <b>Skin contact</b> | The powder or product/water mixture may cause irritation, contact dermatitis or allergic dermatitis and/or burns.   |
| <b>Inhalation</b>   | Inhalation of the powder may cause inflammation of mucous membranes.  |
| <b>Ingestion</b>    | The swallowing of small amounts of product or product/water mixtures is unlikely to cause any significant reaction. Larger doses may result in irritation to the gastro intestinal tract. |

## 12 Ecological information

### Aquatic toxicity rating

LC50 aquatic toxicity rating has not been determined. The addition of any cement-based product to water may, however, cause the pH to rise and therefore may be toxic to aquatic life in some circumstances. No other specific information available.

## 13 Disposal

Dispose of empty bags or surplus product to a place authorized to accept builders' waste. Keep out of reach of children. Small numbers of bags can be disposed of as normal household waste.

## 14 Transport information

Classification for Transport not required.

## 15 Regulatory information

Symbols            Xi Irritant.

### R Phrases

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

### S Phrases

S22                Do not breathe dust.

S28                After contact with skin, wash immediately with plenty of soap and water.

S26                In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

S24/25            Avoid contact with skin and eyes.

S37/39            Wear suitable gloves and eye/face protection.

Keep out reach of children.

## 16 Other information

None.

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