



## MATERIAL SAFETY DATA

EDITION: 4 DATE: February 2007

### 1. PRODUCT

NAME: **Five Star repair concrete (FIVE STAR REPAIR CONCRETE)**

#### Chemical Nature

An odourless grey powder containing granular material insoluble in water. When water is added it becomes a high strength concrete for construction applications.

#### Manufacturer

**Weber**  
Saint-Gobain Weber Limited  
Dickens House  
Enterprise Way  
Flitwick  
Bedford.  
MK45 5BY.

EMERGENCY TELEPHONE NUMBER. 08703 330070

### 2. COMPOSITION

A blend of Portland cement, graded silica sands, graded crushed limestone aggregates, microsilica (< 5%) and with small quantities of other additives.

EEC Symbol: Xi      R Phrases: 36/38

### 3. HAZARDS IDENTIFICATION

Contains chromium (VI). May produce an allergic reaction.  
When mixed 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.

Five Star Repair Concrete, until set, may cause dermatitis due to either its high alkalinity or hexavalent chromium salts present in Portland cement.

### 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 reuse.

- 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

**Five Star Repair Concrete** is not flammable and will not facilitate combustion of other materials.

Exposure hazards

Do not release water contaminated with Five Star Repair Concrete 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 authorised to accept builder's waste. Small quantities can be disposed of as normal household waste.

## 7. HANDLING AND STORAGE

### Handling

When handling bags of Five Star Repair Concrete, which weigh 25kgs, 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 / PERSONAL PROTECTION

### Technical Protective Measures

No special measures required.

### Exposure Limits

Occupational Exposure Standard (OES) Limits 8 hour TWA (According to EH40/00):

Portland cement:	Total inhalable dust:	10mg/m <sup>3</sup>
	Respirable dust	4mg/m <sup>3</sup>
Microsilica –Amorphous Silica:	Total inhalable dust:	6mg/m <sup>3</sup>
	Respirable dust	2.4mg/m <sup>3</sup>

### Respiratory Protection

Suitable respiratory protection should be worn to ensure that personal OES is not exceeded.

### Hand Protection

Wear suitable gloves. Eye Protection Suitable goggles or face protection should be worn

### Skin Protection

Wear overalls and closed footwear.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: Particulate  
 Particle size: 5 - 2000 microns  
 pH: pH of wet cement 12 - 14

## **10. STABILITY AND REACTIVITY**

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

## **11. TOXICOLOGICAL INFORMATION**

### Eye Contact

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.

### Skin Contact

The powder or product/water mixture may cause irritation, contact dermatitis or allergic dermatitis and/or burns.

### Inhalation

Inhalation of the powder may cause inflammation of mucous membranes.

### Ingestion

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 gastrointestinal tract.

## 12. ECOLOGICAL INFORMATION

### Aquatic Toxicity Rating

LC50 aquatic toxicity rating not determined. The addition of Five Star Repair Concrete 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 CONSIDERATIONS

Dispose of empty bags or surplus product to place authorised to accept builder's 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.  
 Contains: Portland Cement C.A.S. No. 65997-15-1. Contains chromium (VI). May produce an allergic reaction.

### R Phrases:

R36/38: Harmful to eyes and skin

### S Phrases:

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

Keep out of reach of children.

## 16. OTHER INFORMATION

None

This safety sheet has been prepared in accordance with the provisions of the EC SDS Directive 91/155.