

# DESIGNER POOL COATINGS

## MATERIAL SAFETY DATA SHEET

Issue date: Nov 2009

### Designer Pool Finishes

#### Company Details

Designer Concrete Coatings Pty Ltd  
8 Jayelem Crescent, Padstow, NSW 2211, Australia  
Tel: (02) 9771 5511 Fax: (02) 9771 5744  
Emergency Telephone: 000

#### Identification

**Product Names:** Designer Pool Finishes  
**Other Names:** BC3000, BC 6000, BC 8000, PR300

**U.N. Number:** None allocated

**Dangerous Goods Class & Subsidiary Risk:** None allocated

**Hazchem Code:** None allocated

**Poisons Schedule:** None allocated

**Use:** Reflective colour hardener for internal surface application on concrete swimming pools.

#### Physical Description / Properties

**Appearance:** Powder form available in various colours.

**Boiling Point/Melting Point:** Some components begin to melt at a very high temperature. (>1200°C)

**Vapour Pressure:** Not applicable

**Specific Gravity:** Not applicable

**Flashpoint:** Non flammable

**Flammability Limits:** Not applicable

**Solubility in Water:** Cementitious component slightly soluble in water forming an alkaline (caustic) product.

**Other Properties** Not explosive. Slight odour. Hardens after mixing with water.

#### Ingredients

	<u>CAS Number</u>	<u>Proportion</u>
Containing Portland Cement	65 97-15-1	10% to 60%
Crystalline Silica (quartz)	14 08-60-7	10% to 60%
Proprietary Ingredients		To 100%
Silica free glass bead	65997-17-3	5-15%

## **Health Hazard Information**

### **ACUTE HEALTH EFFECTS**

#### ***Swallowing***

May cause minor burning sensation and abdominal discomfort. Mild corrosive to mouth and throat.

#### ***Eye***

Short term *exposure: irritating*

Long term *exposure: irritating*, may cause inflammation of the cornea.

#### ***Skin***

Short term *exposure: irritating*

Long term exposure: wet cement, especially as an ingredient in plastic (unhardened)

Concrete, mortar or slurry, is slightly caustic and can dry the skin and cause alkali burns.

There may also be trace amounts of water soluble hexavalent chromium present in Portland Cement which may cause allergic dermatitis to some individuals.

#### ***Inhaled***

Irritating to nose, throat respiratory system causing coughing and sneezing

### **CHRONIC HEALTH EFFECTS**

#### ***Inhaled***

Repeated or prolonged inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs).

Studies have shown that smoking increases the risk of bronchitis, silicosis and lung cancer in persons exposed to crystalline silica. Crystalline silica is present in greater quantities in concrete by reason of the addition of sand and aggregate. Crystalline silica dust derived from the use of this product could be inadvertently inhaled during the dry cutting of concrete.

### **FIRST AID TREATMENT**

#### ***Swallowed***

Immediately wash mouth and lips with water. DO NOT induce vomiting. Drink plenty of water to dilute stomach contents. Seek medical attention if symptoms persist. No health hazard expected with small ingested quantities.

#### ***Skin***

Wash with tepid soapy water. A shower may be required.

#### ***Eyes***

Irrigate with copious water for at least 15-30 minutes. Seek medical attention if eye irritation persists.

#### ***Inhaled***

Move to fresh air, flush nasal passages, wash mouth, lips and throat with water. Seek immediate medical attention if symptoms persist.

#### ***Advice to doctor/First Aid Facilities***

Treat symptomatically. Eye wash station. Fresh, clean water readily accessible at all times.

## **PRECAUTIONS FOR USE**

### **EXPOSURE LIMITS**

#### ***Worksafe Australia Exposure Limits***

Classified as inert nuisance dust.

Crystalline silica (quartz): 0.2mg/m<sup>3</sup> TWA (time weighed average) as respirable dust (7 micron particle equivalent aerodynamic diameter).

Dust (NOS – not otherwise specified) 10mg/m<sup>3</sup> TWA as inspirable dust.

However, where a state or Territory prescribes a lower exposure standard, the lower exposure standard applies.

### **MANUFACTURERS RECOMMENDATIONS**

Keep exposure to dust as low as practicable. Inspirable dust levels are kept below 2 mg/m<sup>3</sup>, health problems such as skin, eye and respiratory irritation will be minimized.

Respirable crystalline silica (quartz) exposure levels should be kept below 0.1mg/m<sup>3</sup> TWA. Avoid repeated skin contact with wet concrete and dry and wet cement.

### **ENGINEERING CONTROLS**

Avoid generating dust. All work with cement should be carried out in such a way as to minimize exposure to dust and repeated skin contact. Where dust could be generated whilst handling cement, use local mechanical ventilation or extraction in areas where dust could escape into the work environment. For bulk deliveries, closed pumping systems are recommended. For handling of individual bags, follow personal protection instructions below if no local exhaust ventilation is available.

Work areas should be cleaned regularly by wet sweeping or vacuuming. If generating dust cannot be avoided, see personal protection recommendations below.

#### ***Eyes***

Safety spectacles with side shields or safety goggles (dust resistant AS/NZS 1336) should be worn if dust is likely to be generated.

#### ***Respiratory***

If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715 & 1716) Use only respirators which bear the Australian Standards mark and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal.

#### ***Flammability***

Not flammable. Does not support combustion of other materials.

## **SAFE HANDLING INFORMATION**

### **STORAGE AND TRANSPORT**

Storage Temp:	Room temp.
UN Class:	None allocated
Packaging Group:	None allocated
UN Number:	None allocated
EPG Number:	None allocated
Correct Shipping Name:	None allocated

Storage Advice: Keep dry at all times. Storage of opened bags will effectively reduce the quality of the product over time. Transported as non-dangerous goods.

Transportation by rail, road or ship in bag form. Keep dry in weatherproof vehicles and storage sheds.

## **SPILLS AND DISPOSALS**

Follow safety requirements for personal protection under "Precautions for use" on skin, eye and respiratory protection and sweep, vacuum or shovel whilst trying to minimize dust generation. Collect in containers and dispose of as trade waste in accordance with local authority guidelines. Keep out of sewer and storm drains.

## **Fire / Explosion Hazard**

Not flammable. Does not cause dust explosions.

## **DECOMPOSITION PRODUCTS**

**In case of small fire/explosion use:** Water

**In case of major emergency:** Water

**HAZCHEM CODE:** None allocated

**Extinguishment:** Water

**Danger of violent reaction or Explosion?** No

**Protective clothing:** As for other chemicals present

**Appropriate measures:** Dilute

**Evacuate:** No

## **OTHER INFORMATION**

In June 1997, crystalline silica was re evaluated by the International Agency for Research on Cancer (IARC): *'Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)'*

Smoking: Cigarette smoking increases the risk of occupational respiratory diseases. It is recommended That all storage and work areas should be smoke-free zones.

## **CONTACT POINT**

**Designer Concrete: 02 9771 5511**

**Emergency: 000**