



## MATERIAL SAFETY DATA SHEET

### **1. Product Identification**

Manufacturer  
Name: Trinidad Cement Limited  
Address: Southern Main Road,  
Claxton Bay  
Republic of Trinidad and Tobago

Phone: (868) 659 2381/2

Emergency Telephone number: 990  
Emergency Ambulance Service: 653:4545  
San Fernando General Hospital 652:3581

Product Name and Data  
Class 'G' Well cement

### **2. Information on Components**

Component Name	%	CAS No.
Tri-calcium silicate	55-65	12168-85-3
Di-calcium silicate	10-20	10034-77-2
Tetra-calcium-alumino-sulphate	15-20	12068-35-8
Calcium sulphate	1-3	13397-24-5
Tri-calcium Aluminate	0-3	12042-78-3
Calcium Carbonate	0-5	1317-65-3
Magnesium Oxide	0-2	1309-48-4
Calcium Oxide	0-1	1305-78-8
Chromates	0-0.005	

### **3. Physical data**

Boiling point – N/A.

Vapour Pressure – N/A.

Vapour density – N/A

Solubility in water – Slight (0.1 to 1.0 %)

Specific gravity - ~3.15

Appearance and Odour – grey powder; no odour.

Melting Point – N/A

### **4. Fire and Explosion Hazard Data**

Flash Point: Well Cements are non-combustible and not explosive

Flammable or explosive Limits: N/A

Extinguishing Media: N/A

Special Firefighting Procedures: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

## **5. Health Hazard Data**

Component Name	Exposure Limits OSHA PEL TWA	ACGIH TLV TWA
(Respirable Dust)	5 mg/m <sup>3</sup>	
(Total Dust)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Calcium sulphate (Respirable dust)	5 mg/m <sup>3</sup>	
(Total Dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Calcium Carbonate (Respirable Dust)	5 mg/m <sup>3</sup>	
(Total Dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Magnesium Oxide	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Calcium Oxide	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Crystalline Silica (Respirable Dust)	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Chromates	0.1 mg (CrO <sub>3</sub> )/m <sup>3</sup>	0.05 mg (Cr)/m <sup>3</sup>
Nuisance Dust (Respirable Dust)	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
(Total Dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

## **6. Potential Health Effects**

### **Inhalation (Acute):**

Breathing dust may cause nose, throat or lung irritation and choking. The described effects depends on the degree of exposure.

### **Inhalation (Chronic):**

Prolonged or repeated exposure may cause lung injury including silicosis. Product may contain crystalline silica, which is classified as a human carcinogen. Long term exposure resulting in silicosis may also lead to other health effects.

### **Eye Contact:**

May cause eye irritation, severe burns and damage to the cornea

### **Skin Contact:**

May cause dry skin, redness, discomfort, irritation, severe burns, allergic reactions and thickening of the skin (scleroderma).

### **Ingestion:**

Ingestion of large amounts may cause intestinal distress.

## **7. First Aid Measures**

### **Inhalation:**

Move the individual to fresh air and seek medical attention.

### **Eye Contact:**

Thoroughly rinse with water. Seek medical attention for any abrasions.

### **Skin Contact:**

Wash the area with soap and water. Seek medical attention for burns. Use moisturizing creams for irritation.

### **Ingestion:**

DO NOT INDUCE VOMITING. Drink plenty water. Seek medical attention.

## **8. Exposure Control and Personal Protection**

### **Engineering Controls:**

Use exhaust ventilation to maintain dust levels below exposure limits in workplaces with poor ventilation and dusty conditions.

### **Personal Protection:**

#### **Respiratory Protection**

Under normal conditions no respiratory protection is required. A NIOSH approved respirator is recommended.

#### **Eye Protection**

Use tight fitting goggles/glasses in dusty environment to prevent contact with eyes. Contact lenses are not recommended.

#### **Skin Protection**

Use impervious, abrasion and alkali-resistant gloves, shoes and protective clothing to prevent skin contact. Barrier creams could also be used. After working with product workers should shower with soap and water.

Note: While every effort has been made to verify the accuracy and validity of the information contained in this MSDS, the user is obliged to determine the conditions for safe use of this product.

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