



# **Material Safety Data Sheet for Ready-Mix Concrete.**

O'Connell Concrete,

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Co.Clare

061 325071

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## **Material Safety Data Sheet- Ready-mix Concrete:**

### **Identification of Product:**

Ready Mixed Concrete.

### **Name of company:**

O Connell Concrete Ltd, Ballycar, Ardnacrush, Co Clare.

Telephone number: 061-345354

### **Application:**

Use of Ready Mixed Concrete should be in accordance with the relevant National / European codes of practice.

### **Composition of Ingredients:**

Ready Mixed Concrete is a mixture of natural aggregates, cement and water. Admixtures may be added to modify the properties of the finished product.

### **Hazard Identification:**

#### **Fresh Concrete:**

1. Fresh concrete contains cement and water with the result that an alkaline solution is produced.
2. Skin contact with wet concrete can result in cement burns. The abrasiveness of the constituents can aggravate the effect.
3. Repeated skin contact with fresh concrete over a period may cause irritant contact dermatitis. The abrasiveness of the constituents can aggravate the effect. Some skins are more sensitive to fresh concrete, and to the small amounts of chromate which may be present and can develop allergic contact dermatitis, however this is rare.
4. Fresh ready-mixed concrete exerts pressure both horizontally and vertically. Movement/collapse of formwork/shuttering etc. is therefore possible if such formwork/shuttering etc. and any false work or ancillary equipment associated with it, is not properly designed and erected.
5. Fresh concrete which is not stiff in consistency can support very little weight. Submersions of persons in deep sections of fresh concrete is therefore possible.

## **Hardened Concrete:**

Cutting, drilling or hammering of hardened concrete can create dust. If inhaled in excessive quantities over extended periods, respirable dust can constitute a long-term hazard.

Cutting, drilling or hammering of hardened concrete, unless adequately controlled, can project particles at high velocity with consequent risk of impact damage and/or injury particularly to exposed areas of the body and eyes.



## **First Aid Measures:**

First Aid treatment is as follows:

### **Eye Contact (Fresh Concrete):**

Immediately rinse under running water for at least TEN minutes and seek medical advice.

### **Skin Contact (Fresh Concrete):**

Immediately rinse affected areas under running water for at least TEN minutes.

### **Cuts/Abrasions:**

Cuts, abrasions from hardened concrete, should be cleaned and treated using the normal First-Aid Method. Wounds must receive prompt medical attention.

In all cases of doubt or where symptoms persist medical advice must be obtained.

## **Fire Fighting Measures:**

Not applicable.

## **Accidental Release Measures:**

- Avoid contact with skin.
- Prevent entry of the wet concrete into water courses, drains or other areas where hardened materials cause problems.
- Remove product using appropriate equipment.

## **Handling:**

- Avoid contact with eyes & skin.
- Before lifting always size up the load. Always follow safe lifting and manual handling procedures.
- Ensure that all formwork/shuttering etc. and any falsework or ancillary equipment associated with it, is properly designed and erected to safely withstand the pressures exerted on it by fresh ready mixed concrete.
- Ensure that unauthorised access to deep sections of fresh concrete which is not stiff in consistency is prohibited.

## **Exposure Controls/Personal:**

### **Hand Protection:**

Wear suitable protective gloves.

### **Skin Protection:**

Avoid contact with skin and overalls should be worn.

### **Eye Protection:**

Wear eye protection to approved standards to prevent eye contact from splashing of fresh concrete or flying particles when hammering hardened concrete.

### **Masks:**

Wear appropriate respiratory protection when cutting, drilling or hammering hardened concrete.

### **Footwear:**

Wear knee high rubber boots or similar with protective toecaps.

### **Kneepads:**

Wear kneepads when kneeling on fresh concrete.

## **Physical & Chemical Properties:**

Density is typically 2.4 tonnes per cubic metre. pH level of fresh concrete is typically 12.

Fresh concrete is usually grey in colour and earth-moist to free flowing in form.

Ready Mixed Concrete hardens through a chemical reaction between cement and water. The product is abrasive.

**Stability & Reactivity:**

Not applicable.

**Toxicological Information:**

No risk on observance of safety.

**Ecological Information:**

Fresh concrete may result in change in pH level and may influence aquatic life forms.

Hardened concrete has no ecological effects.

**Disposal Considerations:**

Hardened concrete may be recycled or placed in approved licensed landfill site.

**Transport Information:**

No risk on observance of safety instructions at 6, 7 & 8 above.

**Regulatory Information:**

Not applicable.

**Other Information:**

**Recommendation, Uses and Restrictions:**

Mortars, Renders and Screeds must be adequately cured before structural loads are imposed.

*Original: Issued January 2006*

*Re-written: October 2014*

*O'Connell Concrete Ltd, Also trading as O'Connell Quarries*

*Ballycar, Ardnacrusha, Co Clare.*