

# MATERIAL SAFETY DATA SHEET

## NORTH EAST CONCRETE LTD

Issue Date: November 2015

### 1a Material Identification – Ready-Mixed Concrete

#### Name of Supplying Company

North East Concrete Ltd., High Street, Newburn, Newcastle upon Tyne, NE15 8LN Telephone: 0191 2290015

### 2 Composition / Information on Ingredients

Ready-mixed concrete is a mixture of:

Cement, Fine and Coarse aggregate. Pigments may be added

Admixtures or additives may be added to improve the properties of the fresh or hardened concrete

The components vary in concentration according to the required properties of the product.

The resultant mixture is abrasive and alkaline.

### 3 Hazards Identification

#### Skin

Contact with wet cement mixes such as wet concrete can cause skin disease. Irritant contact dermatitis is caused by the combination of the wetness, alkalinity and abrasiveness of the ready mixed concrete. Allergic contact dermatitis may be caused by individual sensitivity to chromium compounds which may occur in cement.

Cement burns, a form of skin ulceration, may result from contact with freshly mixed concrete.

#### Eyes

Wet material can cause irritation, inflammation or burns on contact with the eyes

#### Ingestion

The swallowing of small amounts of fresh concrete is unlikely to cause any significant reaction. Larger amounts can cause irritation of the stomach and intestines.

### 4 First Aid Measures

#### Summary of First Aid Procedures

In all cases of doubt, or where symptoms persist, medical advice should be obtained

#### Inhalation

Not applicable.

#### Skin Contact

Where skin contact occurs with wet concrete, either directly or through saturated clothing, the concrete must be washed off immediately with soap and water.

Where concrete enters boots or gloves or saturated clothing, the article should be removed immediately and washed before further use.

#### Eye Contact

Immediately and thoroughly irrigate with water

#### Ingestion

Wash out mouth and drink plenty of water. Do not induce vomiting. Seek medical advice if a large amount is swallowed.

### 5 Fire Fighting Measures

No specific fire hazards

### 6 Accidental Release Measures

#### Personal Precautions

No special requirements.

#### Environmental Precautions

Entry into watercourses should be avoided.

#### Methods for Cleaning

No special requirements.

### 7 Handling and Storage

#### Handling

Skin contact should be avoided. The mixture is abrasive and highly alkaline.

#### Storage

The hardening process of ready-mixed concrete can be delayed by the addition of additives and or mixtures, extending the period during which the precautions given in this data sheet should continue to be taken and during which access by unauthorised persons should be prevented.

## 8 Exposure Controls / Personal Protection

### Take Measures to Prevent

Direct skin contact with fresh concrete should be avoided. It is also important not to kneel or sit on the material as harmful contact can occur through saturated clothing.

The surface treatment and cutting of hardened concrete can create dust which may contain quartz. If inhaled in excessive quantities over an extended period, respirable dust containing quartz can constitute a long term health hazard.

### Exposure Control Limits / Source

Total Dust O.E.S. 10mg/m<sup>3</sup> 8 hours T.W.A.

Respirable dust O.E.S. 5mg/m<sup>3</sup> 8 Hours T.W.A.

Respirable Quartz: M.E.L. 0.4mg/m<sup>3</sup> 8 hours T.W.A.

Crystalline SilicaSiO<sub>3</sub>

**Respiratory Protection** Suitable respiratory protective equipment.

**Hand Protection** Impervious gloves

**Skin Protection** Long sleeved clothing, full length trousers and impervious boots

**Eye Protection** Goggles may be required

## 9 Physical and Chemical Properties

**Appearance** Grey, granular paste

**pH** Highly Alkaline

**Melting Point / Range** Not determined

**Flammability** Not applicable

**Explosive Properties** Not applicable

**Vapour Pressure** Not applicable

**Water Solubility** Dependent on rock type

**Odour** None

**Boiling Point / Range** Not determined

**Flash Point (C)** Not applicable

**Auto Flammability** Not applicable

**Oxidising Properties** Not applicable

**Relative Density** Above 2.0

**Fat Solubility** Not determined

## 10 Stability and Reactivity

**Conditions to Avoid** None. **Materials to Avoid** None. **Hazardous Decomposition Products** None

## 11 Toxicological Information

Skin contact could result in dermatitis and skin burns or disease.

Inhalation of respirable dust from the working of hardened concrete may cause permanent lung damage.

## 12 Ecological Information

### Environment Assessment

When used and disposed of as intended, no adverse environmental effects are foreseen.

## 13 Disposable Consideration

### Likely Residues / Waste Product

Alkaline slurry. Inert hardened material

### Safe Handling of Residues / Waste Product

Aggregates are inert but should be disposed of in accordance with

Local national legal requirements. See the Environmental Protection Act 1990 "Duty of Care" and other current legislation.

## 14 Transport Information

**Special Carriage Requirements**

None.

## 15 Regulatory Information

This product is NOT classified as dangerous for transport

## 16 Other Information

**Training Advice**

**Wear and use of PPE**

**Emergency Contact**

Address and telephone number above