

Substance/Preparation	First Aid Measures	
Substance Name: Ready-mixed Concrete	<u>Summary of First Aid Procedures</u> In all cases of doubt, or where symptoms persist, medical advice should be obtained.	
Company/Undertaking	<u>Inhalation</u> Not applicable. <u>Skin Contact</u> 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 saturates clothing, the article should be removed immediately and washed before further use. <u>Eye Contact</u> Immediately and thoroughly irrigate with water. <u>Ingestion</u> Wash out mouth and drink plenty of water. Do not induce vomiting. Seek medical advice if a large amount is swallowed.	
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Composition/Ingredients		
Ready-mixed concrete is a mixture of: <ul style="list-style-type: none"> • A cementitious material. (This may be cement or a mixture of cement with pulverised fuel ash or ground granulated blast furnace slag or silica fume); • Fine and coarse aggregate • Water; • Admixtures or additives may be added to improve the properties of the fresh or hardened concrete. Pigments may be added to colour the product. <p>The components vary in concentration according to the required properties of the product.</p> <p>The resultant mixture is abrasive and alkaline.</p>	<th data-bbox="735 1055 1484 1099">Fire Fighting Measures</th>	Fire Fighting Measures
<th data-bbox="113 1760 735 1805">Hazards Identification</th>	Hazards Identification	
<u>Skin</u> 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.	<th data-bbox="735 1805 1484 1850">Accidental Release Measures</th>	Accidental Release Measures
	<u>Personal Precautions</u> No special requirements <u>Environmental Precautions</u> Entry into watercourses should be avoided. <u>Methods for Cleaning</u> No special requirements.	

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 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.

Handling/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.

Physical and Chemical Properties

Appearance	Grey, granular paste
Odour	None
PH	Highly Alkaline
Boiling Point/Range	Not Determined
Melting Point/Range	Not Determined
Flash Point (0c)	Not Applicable
Flammability	Not Applicable
Auto Flammability	Not Applicable
Explosive Properties	Not Applicable
Oxidising Properties	Not Applicable
Vapour Pressure	Not Applicable
Relative Density	Above 2.0
Water Solubility	Dependent on rock type
Fat Solubility	Not Determined

Exposure Controls

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 or 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.

Workplace Exposure Limits

Total Dust: 10 mg/m³ (8hrs T.W.A)
 Respirable Dust : 4mg/m³ (8hrs T.W.A)
 Respirable Quartz: 0.1mg/m³ (8hrsT.W.A)
 (Crystalline Silica SiO₂)

T.W.A= Time Weighted Average

Stability and Reactivity

Conditions to avoid

None.

Materials to avoid

None.

Hazardous Decomposition Products

None.

Personal Protection

Respiratory Protection

Suitable respiratory protective equipment

Hand Protection

Impervious gloves

Toxicological Information

Skin contact could result in dermatitis and skin burns or disease. Inhalation or respirable dust from the working of hardened concrete may cause permanent lung damage.

<p><u>Skin Protection</u> Long sleeved clothing, full length trousers and impervious boots</p> <p><u>Eye Protection</u> Goggles may be required</p>	
<p>Ecological Information</p>	<p>Transport Information</p>
<p><u>Possible Effects</u> None.</p> <p><u>Behaviour</u> Non Hazardous.</p> <p><u>Environmental Assessment</u> When used and disposed of as intended, no adverse environmental effects are foreseen.</p>	<p><u>Special Carriage Requirements</u> None.</p>
<p>Disposal</p>	<p>Other Information</p>
<p><u>Likely Residues/Waste Product</u> Alkaline slurry. Inert hardened material.</p> <p><u>Safe Handling of Residues/Waste Product</u> Aggregates are inert but should be disposed of in accordance with local and national legal requirements. See the Environmental Protection Act 1990 'Duty of care' and other current legislation.</p>	<p><u>Training Advice</u> Wear and use of PPE</p> <p><u>Further Information</u> Head of Safety, Health and Environment Breedon Southern Limited Telephone (01332) 694010</p> <p>Key data used to compile data sheet HSE Guidance Note EH40/2011 PPE Regulations 1992 COSHH Regulations 2002 (sixth edition) 2013 Environment Protection Act 1990 HSE Crystalline Silica EH59</p> <p>Further copies of this Safety Data Sheet may be obtained from either Breedon Southern Limited or Breedon Northern Limited.</p>
<p>Regulatory Information</p>	<p>Legal Notice</p>
<p>This product is NOT classified as dangerous for transport.</p>	<p>The information in this Safety Data Sheet was believed to be correct at the time of issue. However, no warranty is made or implied as to the accuracy or completeness of this information.</p> <p>If you have purchased this product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.</p> <p>If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and any of the precautions which should be taken.</p> <p>This Safety Data Sheet does not constitute the user's own assessment of workplace risk, and it is the user's sole responsibility to take all necessary precautions when using this product.</p>