

Substance/Preparation	First Aid Measures
Substance Name: Ready-mixed Concrete, Mortar and Screeds	<p><u>Summary of First Aid Procedures</u></p> <p>In all cases of doubt, or where symptoms persist, medical advice should be obtained.</p> <p><u>Inhalation</u> If irritation occurs, move to fresh air. If nose or airways become inflamed seek medical advice.</p> <p><u>Skin Contact</u> Where skin contact occurs with Concrete, mortar and screed, 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.</p> <p><u>Eye Contact</u> Immediately and thoroughly irrigate with water.</p> <p><u>Ingestion</u> Wash out mouth and drink plenty of water. Do not induce vomiting. Seek medical advice if a large amount is swallowed.</p>
Company / Undertaking	Fire Fighting Measures
<p>Breedon Southern Limited Breedon Quarry Breedon on the Hill Derby DE73 8AP Telephone: 01332 694010 Fax: 01332 863149</p> <p>Breedon Northern Limited Ethiebeaton Quarry Kingennie Monifieth Angus DD5 3RB Telephone: 01382 537600 Fax: 01382 537619</p> <p>Web: www.breedongroup.com Email:enquiries@breedongroup.com</p>	<p><u>Suitable Extinguishing Media</u> Not applicable.</p> <p><u>Unsuitable Extinguishing Media</u> Not applicable.</p> <p><u>Special Exposure Hazards in Fire</u> None.</p> <p><u>Special Protective Equipment for Fire Fighters</u> None.</p>
Composition / Ingredients	Accidental Release Measures
<p>Ready-mixed concrete, mortar and screed is a mixture of:</p> <ul style="list-style-type: none"> <li>• Cementitious material. (This may be cement or a mixture of cement with pulverised fuel ash or ground granulated blast furnace slag or silica fume);</li> <li>• Fine and Coarse aggregate;</li> <li>• Water;</li> <li>• Admixtures or additives may be added to improve the properties of the fresh or hardened screed.</li> </ul> <p>The components vary in concentration according to the required properties of the product.</p> <p>The resultant mixture is abrasive and alkaline.</p>	<p><u>Personal Precautions</u> Avoid contact with skin or eyes. Wear impervious protective clothing.</p> <p><u>Environmental Precautions</u></p>
Hazards Identification	
<p><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</p>	

<p>ready-mixed. 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.</p> <p><u>Eyes</u> Wet material can cause irritation, inflammation or burns on contact with eyes.</p> <p><u>Ingestion</u> The swallowing of small amounts of Concrete, mortar and screed is unlikely to cause any significant reaction. Larger amounts can cause irritation of the stomach and intestines.</p>	<p>Prevent from entering drains, sewers or water courses.</p> <p><u>Methods for Cleaning</u> Recover bulk spillage without delay and, while material is still in a plastic state, using suction system or mechanical shovel.</p> <p>The product can be slurried by the addition of water but will subsequently set as a hard material.</p>																										
<p><b>Handling/Storage</b></p>	<p><b>Physical and Chemical Properties</b></p>																										
<p><u>Wet Concrete, Mortar &amp; Screed</u> Avoid skin and eye contact. Do not kneel or sit in the wet materials as harmful contact can occur through saturated clothing.</p> <p><u>Dry Concrete, Mortar &amp; Screed Dust</u> Minimise creation of dust wherever possible. Engineering control measures such as containment and local exhaust ventilation should be applied when airborne dust exposure levels are approached.</p> <p><u>Storage</u> The hardening process of the concrete, mortar and screed can be delayed by the addition of additives and or admixtures, 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.</p>	<table border="0"> <tr> <td>Appearance</td> <td>Grey, Granular Paste</td> </tr> <tr> <td>Odour</td> <td>None</td> </tr> <tr> <td>PH</td> <td>Highly Alkaline</td> </tr> <tr> <td>Boiling Point/Range</td> <td>Not Determined</td> </tr> <tr> <td>Melting Point/Range</td> <td>Not Determined</td> </tr> <tr> <td>Flash Point (0c)</td> <td>Not Applicable</td> </tr> <tr> <td>Flammability</td> <td>Not Applicable</td> </tr> <tr> <td>Explosive Properties</td> <td>Not Applicable</td> </tr> <tr> <td>Oxidising Properties</td> <td>Not Applicable</td> </tr> <tr> <td>Vapour Pressure</td> <td>Not Applicable</td> </tr> <tr> <td>Relative Density</td> <td>Above 2.0</td> </tr> <tr> <td>Water Solubility</td> <td>Dependent on rock type</td> </tr> <tr> <td>Fat Solubility</td> <td>Not Determined</td> </tr> </table>	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	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
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<p><b>Exposure Controls</b></p>	<p><b>Stability and Reactivity</b></p>																										
<p>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.</p> <p>Workplace Exposure Limits: Total Dust: 10 mg/m<sup>3</sup> (8hrs T.W.A) Respirable Dust : 4mg/m<sup>3</sup> (8hrs T.W.A) Respirable Quartz: 0.1mg/m<sup>3</sup> (8hrsT.W.A) (Crystalline Silica SiO<sub>2</sub>)</p> <p>T.W.A= Time Weighted Average</p>	<p>Becomes alkaline with the addition of moisture.</p> <p><u>Materials to avoid</u> None</p> <p><u>Hazardous Decomposition Products</u> None</p>																										

Personal Protection	Toxicological Information
<p><u>Respiratory Protection</u> Suitable respiratory protective equipment</p> <p><u>Hand Protection</u> Impervious gloves</p> <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><b>Wet Concrete</b></p> <p><u>Eye Contact</u> Mild exposures can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye.</p> <p><u>Skin</u> Short-term exposure may cause alkali burns and or acute allergic dermatitis in people sensitised to chromium compounds. Chronic long-term exposure may cause irritant contact dermatitis which may lead to sensitisation of the skin to chromium compounds.</p> <p><u>Ingestion</u> A small amount of any cement/water mixtures is unlikely to cause significant reaction. Large does may result in irritation to the gastro intestinal tract.</p> <p><u>Inhalation</u> Cement powder may cause inflammation of mucous membranes. Inhalation of large quantities of dust may cause progressive lung damage, leading to permanent disability and, in extreme cases, to premature death.</p> <p><u>Chronic Effects</u> Skin Exposure may cause allergic (chromium) dermatitis. Long term exposure to silica dust may cause silicosis and lead to an increased risk of developing lung cancer.</p> <p><b>Dry Concrete, Mortar &amp; Screed Dust</b></p> <p><u>Eye Contact</u> May cause transient irritation.</p> <p><u>Skin Contact</u> Unlikely to cause harm with brief or occasional contact.</p> <p><u>Inhalation</u> Inhalation of large quantities of respirable silica may lead to progressive lung damage. This may cause permanent disability and in extreme cases, may be fatal.</p> <p><u>Ingestion</u> No harm likely.</p> <p><u>Chronic</u> Exposure to high levels of silica may cause silicosis.</p>
Ecological Information	Transport Information
<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>

Disposal	Other Information
<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.</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>
Regulatory Information	Legal Notice
<p>Chemicals (Hazard information and packaging for supply) Regulations. Classification: Irritant.</p> <p>R38 Irritating to skin R41 Risk of serious damage to eyes R43 May cause sensitisation by skin contact S24 Avoid contact with skin S25 Avoid contact with eyes S26 If contact with eyes, rinse immediately with clean water and seek medical advice.</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>