

SAFETY DATA SHEET

Code: Tarmac 10 - Issue: 4

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1 Identification of Substance & Company

RECYCLED CONCRETE

Company

Tarmac Limited
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2 Composition / Information on Ingredients

Recycled concrete is produced from the demolition of buildings and similar structures.

Recycled concrete is a mixture of:

- A cementitious material. (This may be cement or a mixture of cement with pulverised fuel ash or ground granulated blastfurnace 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 have been added to colour the product.

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

For further details on composition contact the supplying location.

3 Hazards Identification

These products are NOT classified as hazardous in accordance with the CHIP regulations (SI 3247 : 1994).

If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard. Dusts containing Respirable Crystalline Silica (Quartz) present a greater hazard.

Advice on the Quartz content and other chemical information is available from the supplying unit.

4 First Aid Measures

Summary of First Aid Procedures

Inhalation

Immediately remove to fresh air. If breathing is stopped or irregular, apply artificial respiration and seek medical attention.

Skin Contact

Wash with water. Prolonged contact may cause irritation.

Eye Contact

Immediately and thoroughly irrigate with water. The material is abrasive and may scratch the surface of the eye. If pain persists seek medical attention.

Ingestion

Remove to fresh air and give water to drink. Seek medical advice.

5 Fire Fighting Measures

Suitable Extinguishing Media

Not applicable.

Unsuitable Extinguishing Media

Not applicable.

Special Exposure Hazards in Fire

None.

Special Protective Equipment for Fire Fighters

None.

6 Accidental Release Measures

Personal Precautions

Avoid breathing in dust.

Environmental Precautions

Entry into watercourses should be avoided.

Methods for Cleaning

Spray with water to prevent airborne dust.

Avoid dry sweeping which creates dust.

7 Handling and Storage

Handling

The product should be handled to minimise the creation of airborne dust.

Storage

No special requirements.

8 Exposure Controls / Personal Protection

Take Measures to Prevent

Inhalation of dust from aggregates should be avoided.

Exposure Control Limits / Source

Total Dust: W.E.L. 10mg/m³
8 Hours T.W.A.

Respirable Dust: W.E.L. 4mg/m³
8 hours T.W.A.

Respirable Quartz:
Crystalline Silica SiO₂ W.E.L. 0.1mg/m³
8 Hours T.W.A.

W.E.L. = Maximum Exposure Limit

T.W.A. = Time Weighted Average

Respiratory Protection

Suitable dust masks should be worn in enclosed spaces where the handling or further crushing of dry aggregates is taking place and where adequate ventilation is not provided.

Hand Protection

Gloves.

Eye Protection

Goggles may be required.

Skin Protection

Overalls.

<p>9 Physical and Chemical Properties</p> <p>Appearance Granular solid</p> <p>Odour None</p> <p>pH Various</p> <p>Boiling Point / Range Not determined</p> <p>Melting Point / Range Not determined</p> <p>Flash Point Not applicable</p> <p>Flammability Not applicable</p> <p>Auto Flammability Not applicable</p> <p>Explosive Properties Not applicable</p> <p>Oxidising Properties Not determined</p> <p>Vapour Pressure Not applicable</p> <p>Relative Density Above 2.0</p> <p>Water Solubility Dependent on rock type</p> <p>Fat Solubility Not determined</p>	<p>13 Disposal Consideration</p> <p>Likely Residues / Waste Product None.</p> <p>Safe Handling of Residues / Waste Product 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".</p> <p>14 Transport Information</p> <p>Special Carriage Requirements None - open vehicles may require to be sheeted to avoid dust nuisance.</p> <p>15 Regulatory Information This product is NOT classified as dangerous for transport.</p>
<p>10 Stability and Reactivity</p> <p>Conditions to Avoid None.</p> <p>Materials to Avoid Acids (for aggregates containing CaCO₃ & MgCO₃)</p> <p>Hazardous Decomposition Products Limestone aggregates may react with acid groundwater to release carbon dioxide gas, which may build up in confined spaces to hazardous concentrations.</p>	<p>16 Other Information</p> <p>Training Advice Wear and use of PPE.</p> <p>Recommended Uses and Applications Industrial and construction applications.</p> <p>Further Information The Safety, Health & Environmental Manager Tarmac Limited Telephone: (01902) 353522</p>
<p>11 Toxicological Information</p> <p>If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard.</p>	<p>Key Data Used to Compile Data Sheet HSE Guidance Note EH40/2007 PPE Regulations 1992 COSHH Regulations 2002 Environmental Protection Act 1990 HSE Crystalline Silica EH59</p>
<p>12 Ecological Information</p> <p>Environmental Assessment When used and disposed of as intended, no adverse environmental effects are foreseen.</p> <p>Mobility Aggregates are non volatile materials that will sink in water and form a solid layer on the surface of the ground.</p> <p>Persistence and Degradability Aggregates are resistant to degradation and will persist in the environment.</p> <p>Ecotoxicity Leachate may be alkaline, avoid entry into water courses.</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>Further copies of this Safety Data Sheet may be obtained from Tarmac Limited.</p>