

## BUILDING BLOCKS

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**Substance Name **Blocks****1.2. Relevant identified uses of the substance or mixture and uses advised against**

Uses: Hemelite Aggregate Blocks, Topcrete Aggregate Blocks, Toplite Aggregate Blocks, Durox Aircrete Blocks, Durox Thin Joint System

Uses advised against: Refer to Product Data Sheet

**1.3. Company identification**Name: **Tarmac Building Products**Address: i10 Building  
Railway Drive  
Wolverhampton  
WV1 1LH

Telephone number: 0333 003 4555

E-mail: [blocks@tarmacbp.co.uk](mailto:blocks@tarmacbp.co.uk)**1.4. Emergency telephone**UK/European Emergency N°: **999/112**Tarmac Building Products (during office hours): **0333 003 4555****SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the Substance:**

Not classified as hazardous. Dust is not generated under normal use but avoid inhalation of high concentrations of dust if generated by mechanical treatment i.e. cutting, grinding or surface treatment above exposure limits given in section 8 below. The dust may also contain some respirable free crystalline silica that may be inhaled and remain lodged in the alveoli areas of the lungs. The long term effect of prolonged exposure can be silicosis, which can lead to lung cancer.

Under the REACH regulations Article 31 it is the responsibility of the producer of a substance/mixture to provide a safety data sheet if it is considered dangerous. These products are not classified as dangerous. It is still necessary to comply with COSHH requirements, which this Safety Data sheet aims to achieve.

Eye Contact. If dust generated, dust will cause irritation and discomfort by abrasion, as with "grit in eye".

Skin Contact. Prolonged or repeated contact to dust may cause dryness and abrade the skin.

Manual Handling. Blocks will vary in weight and size. Assess the manual handling risks to minimise injuries. Poor posture when bending or twisting can cause excessive strain.

2.1.1 Classification according to Regulation (EC) 1272/2008: Not classified

2.1.2 Classification according to Directive 67/548/EEC: Not classified.

**2.2 Label elements**

2.2.1 Labelling according to Regulation (EC) 1272/2008:

Not required – not classified as hazardous

2.2.2 Labelling according to Directive 67/548/EEC:

Not required – not classified as hazardous

**2.3 Other hazards:**

No other hazards identified.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**3.2 Mixtures:**

3.2.1 Aggregate Blocks - cement, lime, sand, and Aggregates. Aircrete Blocks - pulverised fuel ash (PFA), sand, cement, lime, anhydrite, aluminium slurry and water.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

4.1.1 Routes of exposure;

<b>Inhalation (dust)</b>	Remove to fresh air
<b>Eye contact (dust)</b>	Irrigate with plenty of water, seek medical attention if symptoms persist
<b>Skin contact</b>	Wash with soap and water and apply sterile dressing
<b>Ingestion</b>	N/a

**4.2 Most important symptoms and effects, both acute and delayed:**

None other than advise given above.

**4.3 Indication of any immediate medical attention and special treatment needed:**

None other than advise given above.

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

5.1.2 Suitable extinguishing media:

Non combustible and inhibits the spread of flame. No special fire fighting procedure, extinguisher media or explosion hazard is identified.

5.1.3 Unsuitable extinguishing media:

None identified.

**5.2 Special hazards arising from the substance or mixture:**

None.

**5.3 Advice for fire fighters:**

None.

**SECTION 6: ACCIDENTAL RELEASE MEASURES:**

**6.1. Personal precautions, protective equipment and emergency procedures;**

6.1.1. For Non-emergency personnel: N/a

6.1.2 For emergency responders: N/a

**6.2 Environmental precautions:**

There are no known environmental hazards.

**6.3 Methods and material for containment and cleaning up:**

6.3.1 If dust created, should be cleaned up using a vacuum system fitted with a HEPA (High Efficiency Particulate Air) Filter. Minimise generation of airborne dust by damping down. Avoid sweeping as this creates dust.

**6.4 Reference to other sections:**

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the Appendix of this safety data sheet

## **SECTION 7: HANDLING AND STORAGE:**

### **7.1 Precautions for safe handling;**

#### 7.1.1 Protective Measures

- Where possible use appropriate engineering controls and work practices to minimise dust generation if cutting, sawing or grinding. Where dust occurs use suitable respiratory protection
- When handling, regard should be paid to the risks outlined in the latest Manual Handling Operations Regulations
- Where blocks are banded or strapped, take care to avoid injury as band tension is released and beware of loose blocks falling from the pack
- Suitable gloves should be worn to prevent skin abrasion which could be caused by the rough edges of the blocks. Suitable head and foot protection should be worn where there's a risk of products falling from a height
- Blocks should be stacked close to the place they will be used, with handling kept to a minimum and with access to all sides of the stack
- Blocks should remain in the packs until required or covered to prevent moisture ingress from rain
- Always ensure that the landing area of scaffolding is adequate for the temporary loading of blocks
- Avoid over-reaching or twisting and ensure good grip and secure foot placement in the working area when handling blocks
- If blocks are to be carried, avoid obstacles or tripping hazards and uneven, slippery or unstable ground conditions
- Take particular care or avoid using the type of wall ties that have exposed sharp edges

#### 7.1.2 Advice on general occupational hygiene:

Avoid inhalation if large volumes of dust are generated or contact with skin and eyes.

General occupational hygiene measures are required to ensure safe handling of the product.

These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace.

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**7.2 Conditions for safe storage, including any incompatibilities:**

Blocks should remain in the packs until required or covered to prevent moisture ingress from rain.

When manually handling blocks, to prevent the risk of injury from loose blocks falling or manual handling risks, avoid stacking packs of blocks above normal head height.

When lifted by grab, crane or fork truck, no personnel should be permitted beneath the load or in close proximity to moving vehicles.

When vehicles are offloading, any overhead power lines or cables should be isolated or otherwise adequately protected.

All concrete block packs (palletised or not) should always be stacked on a clean, firm, level base to avoid collapse.

Palletised product should be stacked, using the pallets supplied, no more than three packs high. The pallet for the second and third pack must be positioned such that the load bearers are supported by the pack below. The lower tie slats must also be supported by the pack below.

Where customer's own supply pallets are used it is strongly recommended that packs are only stored one high.

Unpalletised packs should not be stacked more than three high. Packs must be positioned such that all blocks in the lowest layer are supported by the top layer of the pack below.

Ensure suitable stack heights are maintained according to ground conditions – reduce stack heights where conditions are deemed unsuitable.

Reduce the stacking height to no more than two packs where packs are positioned near pedestrian access routes.

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**7.3 Specific end use(s):** N/a

<b>SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION:</b>
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**8.1 Control parameters;**

Workplace exposure limits:

Airborne dust is only generated by mechanically treating the blocks ie cutting, grinding or surface treatment. The following Workplace Exposure Limits (WEL's) for airborne dust are given in HSE Guidance Note EH40 for reference:

Total dust -	W.E.L.	10mg/m <sup>3</sup>	8 Hrs	T.W.A.
Respirable dust -	W.E.L.	4mg/m <sup>3</sup>	8 Hrs	T.W.A.
Crystalline Silica - (Respirable)	W.E.L.	0.1mg/m <sup>3</sup>	8 Hrs	T.W.A.

W.E.L. = Workplace Exposure Limit

T.W.A. = Time Weighted Average

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**8.2 Exposure controls:**

8.2.1 Appropriate engineering controls;

If user generates large volumes of dust, use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne dust levels below recommended exposure limits. Under normal use, dust will not be generated.

## 8.2.2: Individual protection measures, such as personal protective equipment:

8.2.2.1: Eye/face protection;



If dust is generated, wear safety glasses or goggles

8.2.2.2: Skin protection;



Wear gloves to avoid prolonged skin exposure if physically handling the product to avoid abrasion and provide grip on the block when handling

8.2.3.3: Respiratory protection;



Wear suitable respiratory protection equipment when mechanical treatment i.e. cutting, grinding or surface treatment if exposure to atmospheric dust levels above the workplace exposure standard is likely. Use approved dust respirators to EN149 category FFP3, or air-stream helmet for heavy exposure

8.2.2.4: Thermal Hazards; N/a

8.2.3: Environmental Exposure Control; N/a

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

### 9.1 Information on basic physical and chemical properties;

Appearance:	Solid
Odour:	N/a
Odour threshold:	N/a
pH:	N/a
Melting point:	N/a
Boiling point:	N/a
Flash point:	N/a
Evaporation rate:	N/a
Flammability:	Non flammable
Explosive limits:	Non explosive
Vapour pressure:	N/a
Vapour density:	N/a
Relative density:	Typical 2.3
Solubility in water:	N/a
Partition coefficient:	N/a
Auto ignition temperature:	N/a
Decomposition temperature:	N/a
Viscosity:	N/a
Oxidising properties:	N/a

9.2 Other information: None available.

## SECTION 10: STABILITY AND REACTIVITY:

### 10.1 Reactivity;

Stable product under recommended storage and handling conditions.

### 10.2 Chemical Stability;

Stable product under recommended storage and handling conditions.

### 10.3 Possibility of hazardous reactions;

Stable product under recommended storage and handling conditions.

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**10.4 Conditions to avoid;**

None - stable product under recommended storage and handling conditions.

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**10.5 Incompatible Materials;**

None.

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**10.6 Hazardous Decomposition Products;**

N/a

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**11. TOXICOLOGICAL INFORMATION:**

**11.1 Information on toxicological effects;** Not toxic

**11.1.3 Information on likely routes of exposure:** N/a

**11.1.6 Symptoms relating to the physical, chemical and toxicological characteristics:**

N/a

**11.1.7 Delayed and immediate effects as well as chronic effects from short and long-term exposure:**

Long term exposure to dust above the exposure limits given in section 8 during cutting, sawing or grinding can lead to the development of silicosis through exposure to respirable free crystalline silica. This involves changes to the innermost parts of the lungs and can lead to breathing difficulties and in some cases may be fatal.

**SECTION 12: ECOLOGICAL INFORMATION:**

**12.1 Toxicity;** N/a

**12.2 Persistence and Degradability;** N/a

**12.3 Bio accumulative potential;** N/a

**12.4 Mobility in Soils;** N/a

**12.5 Results of PBT and vPvB assessment;** N/a

**12.6 Other adverse effects:**

No other adverse effects are identified

**SECTION 13: DISPOSAL CONSIDERATIONS:**

**13.1 Waste treatment methods;** Disposal should be in accordance with current local and national legislation. Normally disposed be only to licensed waste facilities.  
EWC 17 01 01 – Non Hazardous Building Waste.

**SECTION 14: TRANSPORT INFORMATION:**

These products are not classified as hazardous for transport.

**SECTION 15: REGULATORY INFORMATION:**

**15.1 Safety, health and environmental regulations/legislation specific for the substance;** Not classified for labelling information

**15.2 Chemical Safety Assessment;** N/a

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<b>SECTION 16: OTHER INFORMATION:</b>
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**16.1 Hazard Statements;** None

**16.2 Precautionary Statements;** None

**16.3 Risk Phrases:** None

**16.4 Safety Phrases;** None

**16.5 Abbreviations;** None

**16.6 Key Literature References;**

HSE Guidance Note EH40

PPE Regulations

COSHH Regulations

Environmental Protection Act

Construction Industry Advisory Committee (CONIAC)

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**16.7 Revision:**

Version Number:2

Date Prepared:27/02/2013

Supersedes Version: 1, dated September 2012.

Nature of Revision - This version produced in reference to Annex II of the REACH Regulation (EC) 1907/2006 as amended by Regulation 453/2010

*Disclaimer*

These products are not classified as dangerous. It is still necessary to comply with COSHH requirements, which this Safety Data sheet aims to achieve and generally follows REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended by Regulation 453/2010. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

**APPENDIX: Exposure Scenarios: N/a**

End of the safety data sheet