

# SAFETY DATA SHEET

Product: ASPHALT

Issue Date: June 2021 Issue no: 2.0

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## 1. Identification of Substance / Preparation and Company / Undertaking:

### Substance name: Asphalt

Black bituminous coated aggregate

### Company Details:

Breedon Trading Limited (Breedon GB Materials)  
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Breedon on the Hill,  
Derby,  
DE73 8AP

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## 4. First Aid Measures

### Inhalation

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

### Skin Contact

Burns caused by contact with hot material should be cooled by immediately drenching with cold water. The bitumen may then be removed under medical supervision with warm medicinal paraffin.

### Eye Contact

Irrigate with water for at least ten minutes. If pain persists, seek medical attention.

### Ingestion

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

## 2. Hazard Identification

NOT classified as hazardous in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations.

The main hazards presented by Asphalt depend on the temperature of the material.

### The following hazards may apply:

Hot materials may burn skin.

Fumes from Asphalt are unlikely to be hazardous when laid in open air situations, but there may be a risk to health by continuous inhalation of high vapour concentrations which might arise in confined or semi-confined spaces.

## 5. Fire Fighting Measures

### Suitable Extinguishing Media

dry powder, foam.

### Unsuitable Extinguishing Media

CO<sub>2</sub>.

### Special Exposure Hazards in Fire

Hydrocarbon fumes may be released.

### Special Protective Equipment for Fire Fighters

Full protective clothing including suitable respirator or breathing apparatus.

## 3. Composition / Information on Ingredients

Asphalts are mixtures of aggregates and bitumen. Bitumen is a hydrocarbon derived from the distillation of petroleum crude oil. Asphalts containing other additives are out of the scope of this data sheet.

## 6. Accidental Release Measures

### Personal Precautions

Ensure the temperature of the Asphalt does not present a safety hazard.

Wear overalls and gloves.

### Environmental Precautions

Entry into watercourses should be avoided.

### Methods for Cleaning

No special requirements.

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## 7. Handling and Storage

### Handling

Skin contact with hot material should be avoided. Inhalation of fumes should be avoided as far as is reasonably practicable.

### Storage

No special requirements. Refer to the relevant Technical Data Sheet for the specific product.

## 8. Exposure Controls / Personal Protection

### Take Measures to Prevent

(a) Inhalation of dust.

(b) Inhalation of excessive quantities of dust during cutting or surface treatment of hardened asphalt.

### Workplace Exposure Limits

(a) Fume Inhalation

Asphalt Fumes	W.E.L.	5mg/m <sup>3</sup>	8 Hrs	T.W.A.
	W.E.L.	10mg/m <sup>3</sup>	15 mins	T.W.A.

(b) Dust Inhalation

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.
Respirable Quartz - Crystalline Silica SiO <sub>2</sub>	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

### Control Measures:

Dust should be controlled by containment, suppression and extraction/ filtration where possible.

Regular monitoring should be undertaken to identify where people may be exposed to respirable dust so that further measures can be implemented to reduce exposure.

### Respiratory Protection:

Suitable respiratory protection should be used to protect against inhalation of dust, and to ensure exposure is below the Workplace Exposure Levels given at the start of this section.

### Hand Protection:

Gloves should be worn.

### Eye Protection:

Goggles should be worn to prevent dust entering the eyes if required.

### Skin Protection:

Overalls to protect skin and clothes. The use of skin barrier cream is also recommended.



## 9. Physical and Chemical Properties

<b>Appearance:</b>	black, granular solid.
<b>Odour:</b>	strong
<b>pH:</b>	neutral
<b>Boiling Point / Range:</b>	not applicable
<b>Melting Point / Range:</b>	not applicable
<b>Flash Point:</b>	above 200°C
<b>Auto Flammability:</b>	above 230°C
<b>Flammability:</b>	not determined
<b>Explosive Properties:</b>	not determined
<b>Oxidising Properties:</b>	not determined
<b>Vapour Pressure:</b>	not applicable
<b>Relative Density:</b>	above 2.0
<b>Water Solubility:</b>	insoluble
<b>Fat Solubility:</b>	not determined

## 10. Stability and Reactivity

### Conditions to avoid

Sources of ignition and temperature above 200c.

### Materials to avoid

Strong oxidising agents, e.g. chlorates which may be used in agriculture.

### Hazardous Decomposition Products

The substances arising from the thermal decomposition of the bitumen binder in Asphalt will largely depend on the particular conditions but may contain the following:

Carbon Dioxide, Carbon Monoxide, Water, Particulate Matter, Hydrogen Sulphide, Sulphur Oxides, Polycyclic Aromatic Hydrocarbons, Unburnt Hydrocarbons, Nitrogen Oxides, Vanadium Pentoxide.

## 11. Toxicological Information

Fumes inhaled over a prolonged period could constitute a health hazard. Prolonged skin contact may cause dermatitis and malignant warts.

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<p><b>12. Ecological Information</b></p> <p><b>Environmental Assessment</b> When used and disposed of as intended, no adverse environmental effects are foreseen.</p> <p><b>Mobility</b> Asphalts are non-volatile materials that will sink in water and form a solid layer on the surface of the ground.</p> <p><b>Persistence and Degradability</b> Asphalts are resistant to degradation and will persist in the environment for a considerable period of time.</p> <p><b>Ecotoxicity</b> Not expected to be toxic to aquatic organisms.</p>	<p><b>16. Other Information</b></p> <p><b>Training Advice:</b> Wear and use of PPE.</p> <p><b>Recommended Uses and Applications:</b> Industrial and construction applications.</p> <p><b>Further Information:</b> <b>Contact:</b> <a href="mailto:enquiries.breedon@breedongroup.com">enquiries.breedon@breedongroup.com</a></p> <p><b>Key Data Used to Compile Data Sheet:</b> HSE Guidance Note EH40 PPE Regulations 1992 COSHH Regulations 2002 Environmental Protection Act 1990 HSE Crystalline Silica EH59</p> <p>Further copies of this Safety Data Sheet may be obtained on request.</p> <p>Prepared in accordance with Annex II of the REACH Regulation (EC) 1907/2006</p>
<p><b>13. Disposal Consideration</b></p> <p><b>Likely Residues / Waste Product</b> Asphalt is an inert material.</p> <p><b>Safe Handling of Residues/Waste Product</b> Aggregates are inert but should be disposed of in accordance with local and national legal requirements. See Environmental Protection Act 1990 'Duty of care'.</p>	<p><b>Legal Notice</b> 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><b>14. Transport Information</b></p> <p><b>Special Carriage Requirements:</b> None – not classified as dangerous for transport.</p> <p>Open vehicles should be sheeted</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>
<p><b>15. Regulatory Information</b></p> <p>Classification: <b>Not classified as dangerous.</b></p>	