SAFETY DATA SHEET

Product: ASPHALT

Issue Date: June 2021 Issue no: 2.0

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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DE73 8AP

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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 a risk to health by continuous inhalation of high vapour concentrations which might arise in confined or semi-confined spaces.

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.

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.

5. Fire Fighting Measures

Suitable Extinguishing Media
dry powder, foam.

Unsuitable Extinguishing Media
CO2.

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.

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.

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^3	8 Hrs	T.W.A.
	W.E.L.	10mg/m^3	15 mins	T.W.A.
(b) Dust Inhalation				
Total Dust -	W.E.L.	10mg/m^3	8 Hrs	T.W.A.
Respirable Dust -	W.E.L.	4mg/m^3	8 Hrs	T.W.A.
Respirable Quartz - Crystalline Silica SiO_2	W.E.L.	0.1mg/m^3	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

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

12. Ecological Information

Environmental Assessment
When used and disposed of as intended, no adverse environmental effects are foreseen.

Mobility
Asphalts are non-volatile materials that will sink in water and form a solid layer on the surface of the ground.

Persistence and Degradability
Asphalts are resistant to degradation and will persist in the environment for a considerable period of time.

Ecotoxicity
Not expected to be toxic to aquatic organisms.

13. Disposal Consideration

Likely Residues / Waste Product
Asphalt is an inert material.

Safe Handling of Residues/Waste Product
Aggregates are inert but should be disposed of in accordance with local and national legal requirements. See Environmental Protection Act 1990 'Duty of care'.

14. Transport Information

Special Carriage Requirements:
None – not classified as dangerous for transport.

Open vehicles should be sheeted

15. Regulatory Information

Classification: **Not classified as dangerous.**

16. Other Information

Training Advice:
Wear and use of PPE.

Recommended Uses and Applications:
Industrial and construction applications.

Further Information:
Contact: enquiries.breedon@breedongroup.com

Key Data Used to Compile Data Sheet:
HSE Guidance Note EH40
PPE Regulations 1992
COSHH Regulations 2002
Environmental Protection Act 1990
HSE Crystalline Silica EH59

Further copies of this Safety Data Sheet may be obtained on request.

Prepared in accordance with Annex II of the REACH Regulation (EC) 1907/2006

Legal Notice

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.

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.

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.

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.