

SAFETY DATA SHEET

Issue date JAN 2009

Page 1 of 2



1 Identification of Substance & Company

ASPHALT

Companies:

Ennstone Johnston Limited

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2 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 additives are out of the scope of this data sheet.
For further details of the specification refer to the relevant Technical Data Sheet.

3 Hazards Identification

These products are NOT classified as hazardous in accordance with the CHIP regulations (SI 3247:1994).
The main hazards presented by Asphalt depend on the temperature of the material.

The following hazards may apply:

- Hot materials may burn the 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.

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 materials 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

- Inhalation of dust.
- Inhalation of excessive quantities of dust during cutting or surface treatment of hardened asphalt.

Exposure Control Limits / Source

(a) Asphalt Fumes – W.E.L.	5mg/m ³ 8 hours T.W.A.
	10mg/m ³ 15 Min. T.W.A.
(b) Total Dust – W.E.L.	10mg/m ³ 8 hours T.W.A.
Respirable Dust – W.E.L.	4mg/m ³ 8 Hours T.W.A.
Respirable Quartz – W.E.L.	0.1mg/m ³ 8 Hours T.W.A.

W.E.L. = Workplace Exposure Limit
T.W.A. = Time Weighted Average

Respiratory Protection

Suitable masks if dust / fume is present in significant quantities.

Hand Protection

Gloves.

Eye Protection

Goggles may be required

Skin Protection

Overalls

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Page 1 of 2



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 (0C)	Above 200C
Flammability	Not determined
Auto Flammability	Above 230C
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 temperatures 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 Considerations

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 the Environmental Protection Act 1990 "Duty of Care".

14 Transport Information

Special Carriage Requirements

None - keep covered.

15 Regulatory Information

This product is NOT classified as dangerous for transport.

16 Other Information

Training Advice

Wear and use of PPE.

Recommended Uses and Applications

Industrial and construction applications.

Further Information

The Director of Health, Safety and Environment
Ennstone Johnston Limited
Telephone: (01332) 694010

Key Data Used to Compile Data Sheet

HSE Guidance Note EH40/2007

PPE Regulations 1992

COSHH Regulations 2002 (fifth edition) 2005

Environmental Protection Act 1990

HSE Crystalline Silica EH59

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.

Further copies of this Safety Data Sheet may be obtained from either Ennstone Johnston Limited or Ennstone Thistle Limited.