

NESS 1 - Issue 3 Issue Date MAY 2024

1. Identification of Substance & Company

ASPHALT CONCRETE & HOT ROLLED ASPHALT

Company

North East Site Services Ltd High Street Newburn Newcastle Upon Tyne NE15 8LN

Tel: 0191 2290015

2. Composition/information on Ingredients

Asphalts are a mixture of aggregates and bitumen. Bitumen is a hydrocarbon derived from the distillation of petroleum crude oil. Asphalts containing additives are out

For further details of the specification refer to the relevant Technical Data Sheet

of scope of this 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 depends 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

Summary of First Aid Procedures

Inhalation

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

5. Fire Fighting Measures

Suitable Extinguishing Media

Dry powder, foam

Unsuitable Extinguishing Media

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 the 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



NESS 1 – Issue 3 Issue Date MAY 2024

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

Exposure Control Limits/Source

(a) Asphalt Fumes – WEL 5mg/m3 8 hours TWA

10mg/m3 15min. TWA

(b) Total Dust – WEL 10mg/m3 8 hours TWA Respirable Dust – WEL 4mg/m3 8 hours TWA

Respirable Quartz 0.3mg/m38 hours TWA* Crystalline Silica SiO2

WEL = workplace exposure limit TWA = time weighted average

*HSC/E plans to review the limit value for this substance

Respiratory Protection

Suitable mask if dust/fume is present in significant quantities

Hand Protection

Gloves

9. Physical and Chemical Properties

Apperance Black, granular solid

Odour Strong Neutral **Boiling Point/Range** N/A Melting Point/Range 90 -100°C above 200°C Flash Point (°C) Flammability not determined Auto Flammability above 230°C **Explosive Properties** not determined Oxidising Properties not determined Vapour Pressure Relative Density N/A above2.0

Vapour Pressure
Relative Density
Water Solubility
Fat Solubility
N/A
above2.0
Insoluable
not determined

10. Stability and Reactivity Conditions to Avoid

Sources of ignition and temperatures above 200°C

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 ground

Persistance and Degradability

Asphalts are resistant to degradation and will persist in the

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 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

Technical Manager – Michael Atkinson Telephone 07825 237014

Key Data Used to Compile Data Sheet

HSE Guidance Note EH40/2005 PPE Regulations 1992 COSHH Regulations 2002 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 you 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 North East Site Services Ltd.