

## MATERIAL SAFETY DATA SHEET PENETRATION GRADE BITUMEN

### 1. Identification of Substance and Supplier Substance/Preparation:

Bitumen supplier: [www.bituphalt.com](http://www.bituphalt.com)

E-mail: [info@bituphalt.com](mailto:info@bituphalt.com)

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## HAZARD INFORMATION

### 2. Composition/Information on Ingredients

The product contains no dangerous substances per EC Directive 67/548/EEC and further modifications and adaptations pointed out in this publication.

### 3. Hazardous Identification

Inhalation of vapour or mist can cause headache, nausea, irritation of nose and lungs. Eye contact with material can cause slight irritation. Prolonged or repeated skin contact can cause slight skin irritation.

## EMERGENCY ACTION

### 4. First Aid Measures

Eye Contact: If the substance has entered the eyes, then irrigate with emergency eye wash solution (if available) or clean water for up to 15 minutes. Seek medical attention.

Skin Contact: Remove contamination with proprietary skin cleaner, followed by washing with soap and water. If irritation persists, seek medical attention.

Ingestion: If swallowed seek medical advice immediately. Do not induce vomiting.

Inhalation: If inhalation occurs, remove the patient into fresh air. Keep warm and at rest.

### 5. Firefighting Measures

The product is non-combustible, but will ignite and burn at temperatures exceeding the flash point. If there is a fire, it can cause dangerous fumes. If necessary, wear a breathing apparatus.

### 6. Accidental Release Measures

Avoid skin contact, wear suitable protective equipment (see 8).

Cleaning up: Extinguish sources of heat and fire. Cover leaks with absorbent material such as sand. Disperse left-over material with water or foam spray, do not use vacuum.

## PRECAUTIONS

### 7. Storage & Handling

Storage: Store in unopened containers. Storage temperature limits are 1°C to 50°C.

Handling: Avoid prolonged skin contact, avoid contact with eyes. Take usual hygiene measures. Ensure adequate ventilation.

### 8. Exposure Controls/Personal Protection

Personal protective equipment:

a. Respiratory protection: Use breathing apparatus in case of inhaling vapours for a long time.

b. Hand & skin protection: Avoid skin contact by wearing protective clothing, for example waterproof gloves, overalls, and boots. Change heavily contaminated clothing as soon as possible and launder before reuse.

c. Eye protection: Wear waterproof protective glasses.

## PRODUCT INFORMATION

### 9. Physical & Chemical Properties

Form: Solid

Colour: Black

Odour: Characteristic

Specific Gravity: 1.00

Solubility in Water: Dilutable

Alkalinity – PH: N/A

Boiling Point/Boiling Range: >250°C

Melting Point/Melting Range: >100°C

Flash Point: N/A

Flammability & Auto Flammability: N/A

Oxidising Properties: N/A

Vapour Pressure: N/A

### 10. Stability & Reactivity

The product is stable in normal usage & storage conditions at environmental temperatures. Thermal decomposition or burning may release oxides of carbon and other toxic gases or vapours.

### 11. Toxicological Information

See 10.

### **12. Ecological Information**

There are no known eco-toxic effects in the existing patterns of productions, handling, storage, and use.

### **13. Disposal Considerations**

Coagulate the dispersion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

## **ADDITIONAL INFORMATION**

### **14. Transport Information**

- Not hazardous,
- Classification for conveyance – not required,
- Good are None DG as per IATA regulations.

## **BITUPHALT BITUMEN**

## 70/100 PENETRATION GRADE BITUMEN SPECIFICATIONS

Property	Specifications	Test Method
Penetration @ 25°C	70/100	D – 5
Specific Gravity @ 25°C	1.01 – 1.06	D – 70
Softening point	43/51	D – 36
Ductility @ 25°C	100 Min	D – 113
Loss on heating (wt) %	0.2 Max	D – 6
Drop in penetration after heating %	20 Max	D – 6 & D – 5
Flash point	232 Min	D – 92
Solubility in CS <sub>2</sub> (wt) %	99.0 Min	D – 4
Spot test	Negative	A.A.S.H.O.T102