



MATERIAL SAFETY DATA SHEET

FOR

BITUMEN PENETRATION GRADE

TO BS EN 12591:1999

ISSUED BY	REVIEWED BY	APPROVED BY	DATE	VERSION
Quality Management	Director Bitumen	Risk Management	Mar 01, 2011	2.0



MATERIAL SAFETY DATA SHEET

BITUMEN

Road Construction

1. Identification of substance and supplier

Substance/preparation: Bitumen

Supplier/manufacturer:

EMERALD BITUMEN

P.O Box : 23807

Dubai - UAE

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Hazard Information

2. Composition/information on ingredients

The product contains no dangerous substances according to 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. Fire fighting measures

There are no risks of fire or explosion as the products identified are non combustible. The product is non-flammable but it can cause dangerous fumes if there is a fire. If necessary wear breathing apparatus.

6. Accidental release measures

Avoid skin contact, wear suitable protective equipment (see 8.1).

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.

Environmental measures: Prevent from entering drains, sewers or water courses.

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Precautions

7. Storage & handling

Storage: Store in unopened containers. Storage temperature limits are 1 deg c to 50 deg 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 re-use.

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 production, 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.

15. Regulatory information

EEC: This product satisfies all the requirements of the European Inventory of Existing Chemical Substances. (EINECS). This product is not HAZARDOUS ACCORDING TO EEC Directives 67/548/EEC and 88/379/EEC.

16. Legislation & other information

Health & Safety at Work, etc. Act 1974

- Control of Substances Hazardous to Health Regulations (COSHH) 2002
- Control of Substances Hazardous to Health (Amendment) Regulations 2004
- Environmental Protection Act 1990
- HSE Guidance Note EH40 (Workplace Exposure Limits)
- Any authorised manual on First Aid by St.John's/St. Andrews/ Red Cross.
- Manual Handling Operations Regulations 1992 (as amended)

Data Sheet prepared in accordance with the Safety Data Sheets Directive (91/155/EEC, as amended by Directives 93/122/EC and 2001/58/EC).

Important Notes

All information is based on results gained from experience and test and is believed to be accurate, but is given without acceptance of liability for loss or damage attributable to reliance thereon, as conditions of use lie outside our control. Users should always carry tests to establish the suitability of any products for their intended application. No statements shall be incorporated in any contract unless expressly agreed in writing or construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to EMERALD BITUMEN's Standard Conditions of Sale, copies of which are available upon request.