

KELLY'S OF FANTANE (CONCRETE) LTD.

MATERIALS SAFETY DATA SHEET-HOT BITUMINOUS ROAD MATERIALS

1. (A) Identification of product

Hot Bituminous Road Materials

(B) Name of Company:

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(C) Application:

Hot bituminous road materials are designed for use in construction and repair of roads and other paved areas. Hot bituminous road materials should be used in accordance with the relevant National and/or European Standards and Codes of Practice.

2. Composition of Ingredients

Hot bituminous materials are mixtures of heated aggregates and bituminous binders.

Hot bituminous material is a black granular material with a temperature up to 200 degrees celcius and a density up to about 1.6.

3. Hazard Identification

The main hazards presented by a hot bituminous road material are associated with the temperature of the mix and/or fumes from the hot binder.

Hot bituminous materials may burn skin.

Fumes from hot bituminous materials may be a risk to health with prolonged inhalation in confined spaces e.g. tunnels. Adequate ventilation must be provided in enclosed areas.

4. First Aid Measures

First Aid Treatment is as follows:

4.1 Eye Contact with Hot Material

Immediately wash with cold running water for at least TEN minutes, and seek medical advice.

4.2 Skin Contact

Remove non-adhering hot mixture and apply cold water to the affected skin. Continue to immerse in cold water until thoroughly cold.

No attempt should be made to remove adhering bitumen from the skin, unless under medical supervision.

Bitumen will provide a sterile covering until healing occurs, and it will then detach itself after a few days.

Medical assistance should be sought without delay.

4.3 Inhalation of Fumes

Remove person to fresh air and seek medical advice.

5. Fire Fighting Measures

Where kerosene is used as a cleaning agent take suitable precautions to prevent ignition. Smoking is prohibited.

6. Accidental Release Measures

- 6.1 Avoid contact with skin.
- 6.2 Prevent entry into water courses, drains, or other areas where hardened materials cause problems.
- 6.3 Remove product using appropriate equipment.

7. Handling

Avoid contact with eyes and skin. Always follow safe lifting and manual handling procedures.

8. Exposure Controls

8.1 Hand protection

Wear suitable protective gloves.

8.2 Skin Protection

Avoid contact with skin. Overalls should be worn.

8.3 Eye Protection

Wear goggles to protect against eye contact from hot bituminous road materials or from flying particles, when cutting hardened material.

8.4 Masks

Wear appropriate respiratory protection when cutting hardened material.

8.5 Footwear

Wear heat-resistant footwear and wear suitable gaiters to prevent entry of hot material inside the footwear.

9. Physical and Chemical Properties

The binder may be modified and additives used. Polymers and SBS rubber may be used for this purpose. Where fluxing oils or kerosene are used to adjust binder viscosity and setting time take appropriate fire precautions to avoid ignition. Smoking is prohibited.

10. Stability and Reactivity

Water coming into contact with hot bituminous road materials may give rise to steam leading to a reduction of vision

11. Toxicological information.

No risks on observance of safety instructions at **6**, **7** and **8** above.

12. Ecological Information

Hardened bituminous road materials may be used for construction fill or placed in approved licensed landfill site.

13. Disposal Considerations

Hardened bituminous road materials may be used for construction fill or placed in approved licensed landfill site.

14. Transport Information

No risk on observance of safety instructions at **6**, **7** and **8** above. Do not keep other items such as gas bottles in contact with hot bituminous road materials.

15. Regulatory Information

Not applicable.

16. Other Information

Storage

Some varieties of hot bituminous road materials are supplied as deferred-set mixes having extended working lives, during which the precautions given should be continued. During storage, access to products by unauthorised persons should be prevented. Where storage of materials is necessary in public areas or areas with access by the public, safe storage should be provided which is posted with appropriate safety warning signs.

Once material has cooled and hardened, it presents no particular hazard.