

MATERIAL SAFETY DATA SHEET

Black Bitumen Macadam

Rugby™

The Professionals' Choice

1. Identification of substance/preparation and company

Company:
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Telephone: 0808 145 1900
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Product:
Rugby Black Bitumen Macadam

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Hazard Information

2. Composition/Information on Ingredients

Black Bitumen Macadam - Coated macadam is a mixture of coarse and fine aggregates bound together with bitumen. The bitumen is of cutback grade and may be modified by a petroleum or chemical polymer fluxing oil. Bitumen is a mixture of hydrocarbons formed from the distillation of crude oil.

3. Hazards Identification

Prolonged or repeated contact with bituminous products may give rise to dermatitis, skin lesions or skin cancer in extreme cases. Inhalation of vapour, mist or fumes may be harmful.

Emergency Action

4. First Aid Measures

4.1 Eye Contact

The affected area should be irrigated immediately with cold running water or sterile eye wash and medical attention sought.

4.2 Skin Contact

All bitumen burns should receive prompt medical attention. The affected area should be placed into cold running water until the ambulance service arrives. No attempt should be made to remove adhering bitumen unless this is essential to allow breathing.

4.3 Ingestion

Ingestion is highly unlikely in any normal circumstances.

4.4 Inhalation

Remove the affected person to fresh air. If breathing has stopped start artificial resuscitation. If the person is breathing but unconscious, place in the recovery position. Obtain medical assistance immediately.

5. Fire Fighting Measures

Dry powder or foam extinguishers should be used on bitumen fires. Water extinguishers should not be used since these will make the situation worse.

6. Accidental Release Measures

6.1 Personal Precautions (See 8.2)

Wear impervious heat resistant gauntlets which protect the wrist area, overalls and heat resistant safety boots. Prevent contact with ignition sources and ensure that suitable respiratory protection is used if vapours/fumes are present.

6.2 Cleaning Up

In the event of a spillage avoid skin and eye contact. Scrape up bulk material and dispose of according to regulatory restrictions.

6.3 Environmental Measures

Bitumen oil is harmful to aquatic life. Avoid contamination of ponds, water courses, ditches and drains.

Precautions

7. Storage and Handling

7.1 Storage

Bags should be stacked in a safe and stable manner, away from any moisture.

7.2 Handling

Avoid skin contact with coated products. Eating, drinking and smoking should be avoided where there is a risk of cross-contamination. Deferred set mixes having an extended working life should be stored in properly constructed open air containment bays which should be sheeted. Access to these materials should be restricted to authorised personnel. Appropriate personal protective clothing (see 8.2) should therefore be used whilst handling.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Standard (OES)

Substance	OES	Period
Asphalt/petroleum fumes	5 mg/m ³	8 hour TWA
	10 mg/m ³	15 minute STEL

8.2 Personal Protective Equipment

a. Respiratory Protection

Suitable respiratory protection against petroleum based organic vapours to the appropriate grade. Always ensure good ventilation.

b. Hand and Skin Protection

Impervious heat resistant gloves/gauntlets for the hands/arms. Overalls/long sleeved jacket & trousers.

Heat/chemical resistant boots.

c. Eye Protection

Goggles or face-shield eye protection if there is a risk of splashing.

Product Information

9. Physical/Chemical Properties

Macadams contain crushed stone or sand bound by bitumen which sets to form a hard durable solid. The binder may be modified using petroleum or chemical polymer based fluxing oils. The pH is neutral or mildly acidic.

10. Stability and Reactivity

Conditions contributing to chemical instability: none.

Hazardous decomposition products: none.

Special precautions: none.

11. Toxicological Information

Adverse health effects associated with heated products.

a. Eye Contact

May be irritating to the eyes. Contact with the eyes may cause burns.

b. Skin

Prolonged or repeated contact may give rise to dermatitis, skin lesions or cancer.

c. Ingestion

Extremely unlikely. Seek medical advice.

d. Inhalation

No acute hazard at ambient temperatures. At elevated temperatures volatile organic fumes and vapours may be irritating to the respiratory tract. Small quantities of hydrogen sulphides may be released which may accumulate to hazardous concentrations in poorly ventilated enclosed spaces.



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12. Ecological Information

12.1 Aquatic Toxicity Rating

LC50 aquatic toxicity rating not determined. There are no significant hazards when the product is at ambient temperatures. At elevated temperatures hot bitumen oil is harmful to aquatic life.

13. Disposal Considerations

Asphalts are not classified as hazardous for disposal. Local Authority requirements should be observed. Keep out of reach of children.

Additional Information

14. Transport Information

Classification for conveyance – not required.

15. Regulatory Information

15.1 Chemicals (Hazardous Information & Packaging for Supply) Regulations 2002

Classification - Irritant (+hazard symbol)

Danger Classification	Phrase
R38	Irritating to the skin
S24	Avoid contact with skin
S25	Avoid contact with eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

15.2 Risk/Safety Phrases

Risk Phrases

- Contact with Macadam may cause irritation, dermatitis or burns

Safety Phrases

- Avoid eye and skin contact by wearing suitable eye protection, clothing and gloves
- Keep out of reach of children
- On contact with eyes rinse immediately with plenty of clean water. Seek medical advice after eye contact
- On contact with skin rinse immediately with plenty of soap and clean water
- Contaminated clothing should not be allowed to come into contact with the skin

16. Legislation and Other Information

- Health & Safety at work etc. Act 1974
 - Consumer Protection Act 1987
 - Control of Substances Hazardous to Health Regulations (COSHH) 2002
 - HSE Guidance Note EH40 (Occupational Exposure Limits)
 - Any authorised manual on First Aid by St.John's/St. Andrews/Red Cross
 - Manual Handling Operations Regulations
 - Environmental Protection Act 1990
- Data Sheet prepared in accordance with directive 91/155/EEC.

Guidance references

Available from HMSO, HSE area offices, or local authority Environmental Health Departments:

- EH40/2002: Occupational Exposure Limits
- A step by step Guide to COSHH assessments (HS[G]97)
- Institute of Petroleum: Bitumen Safety Code
- Waste Management – The Duty of Care

Important Notes:

Data and advice in this Material Safety Data Sheet is provided to alert all purchasers and users to the possible hazards of use when the material is used as intended. The information should enable them to take the necessary precautions to protect the health and safety of personnel.

This Data Sheet does NOT constitute the user's own assessment of workplace risk as required by other safety legislation. If purchasing on behalf of a third party who will work with the material, it is your statutory duty to pass on this information to them BEFORE such work begins.

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