

MSDS

Bitumen (Asphalt 60/70)

Material Safety Data Sheet (MSDS) for Bitumen – Vitfa

This Material Safety Data Sheet (MSDS) provides comprehensive safety, handling, storage, and environmental information for **Petroleum Bitumen (Grade 60/70)**, one of the key industrial materials supplied through Vitfa. It is intended to ensure safe use and compliance with international standards for both suppliers and buyers. Please review this document carefully before handling or transporting bitumen.

Material Safety Data Sheet (MSDS) – Bitumen (Asphalt 60/70)

1. Identification of the Substance/Preparation and Company


- **Product Name:** Bitumen (Petroleum Asphalt, Penetration Grade 60/70)
- **CAS Number:** 8052-42-4
- **Recommended Use:** Road construction, waterproofing, roofing
- **Supplier:** [Insert company name, address, phone number]


2. Hazards Identification


- **Classification:** Not classified as hazardous under normal handling
- **Physical Hazards:** Heated bitumen may cause thermal burns
- **Health Hazards:** Fumes can irritate respiratory tract, eyes, and skin
- **Environmental Hazards:** May contaminate water and soil if released


3. Composition/Information on Ingredients


- **Substance:** Petroleum Bitumen
- **Chemical Nature:** Complex mixture of high molecular weight hydrocarbons
- **CAS Number:** 8052-42-4

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- **Impurities:** May contain trace amounts of sulfur compounds
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4. First Aid Measures

- **Inhalation:** Remove to fresh air, seek medical attention if symptoms persist
 - **Skin Contact:** Cool affected area with cold water; do not remove solidified bitumen
 - **Eye Contact:** Flush with plenty of water; seek medical help
 - **Ingestion:** Not expected to be ingested; seek immediate medical attention if occurs
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, CO₂, foam
 - **Hazardous Combustion Products:** CO, CO₂, sulfur oxides, smoke
 - **Protective Equipment:** Self-contained breathing apparatus (SCBA)
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6. Accidental Release Measures

- **Personal Precautions:** Wear protective gear, avoid contact
 - **Environmental Precautions:** Prevent entry into drains or waterways
 - **Cleanup Methods:** Let cool and solidify; remove mechanically
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7. Handling and Storage

- **Handling:** Avoid overheating and direct contact
 - **Storage Conditions:** Store in closed containers, away from heat or ignition sources
 - **Incompatible Materials:** Strong oxidizers
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Consult local regulations
- **Respiratory Protection:** Use when fumes are present
- **Skin Protection:** Heat-resistant gloves and protective clothing
- **Eye Protection:** Safety goggles

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- **Hygiene Measures:** Wash thoroughly after handling
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9. Physical and Chemical Properties

- **Appearance:** Black or dark brown solid/semi-solid
 - **Odor:** Hydrocarbon odor when heated
 - **Boiling Point:** > 300°C
 - **Flash Point:** > 230°C (closed cup)
 - **Density:** ~1.0–1.1 g/cm³
 - **Solubility:** Insoluble in water
 - **Softening Point:** 49–56°C (Ring & Ball method)
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions
 - **Conditions to Avoid:** Overheating, open flames
 - **Incompatible Materials:** Strong oxidizing agents
 - **Decomposition Products:** CO, CO₂, sulfur oxides, hydrocarbons
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11. Toxicological Information

- **Acute Toxicity:** Low under normal use
 - **Skin Irritation:** Heated bitumen can cause severe burns
 - **Inhalation Risk:** May cause dizziness or headache in poorly ventilated areas
 - **Chronic Effects:** Prolonged exposure to fumes may cause respiratory irritation
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12. Ecological Information

- **Environmental Impact:** Persistent in environment
- **Mobility:** Low; adheres to soil and sediment
- **Bioaccumulation:** Low potential
- **Aquatic Toxicity:** Not expected under normal conditions, but physical fouling possible

13. Disposal Considerations

- **Waste Treatment Methods:** Dispose of according to local/national regulations
 - **Do Not:** Discharge into drains or environment
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14. Transport Information

- **UN Number:** Not classified as hazardous for transport (cold state)
 - **Proper Shipping Name:** Not regulated (if not heated)
 - **Transport Hazard Class:** Not applicable
 - **Packaging Group:** Not applicable
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15. Regulatory Information

- **Labeling According to GHS:** Not classified as hazardous
 - **Other Regulations:** Complies with REACH, OSHA (non-hazardous classification under normal conditions)
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16. Other Information

- **Prepared By:** [Your Company Name or HSE Department]
- **Revision Date:** [Insert date]
- **Disclaimer:** The information provided in this MSDS is based on current knowledge and is intended to describe the product for health, safety, and environmental requirements.