



MSDS – Chinese Grade Bitumen AH 110

1. Product Identification

Product Name: Chinese Grade Bitumen AH 110

Product Type: Petroleum Bitumen / Paving Grade Bitumen

Recommended Use: Road paving, asphalt production, waterproofing, and industrial applications

Supplier: Basekim

2. Hazard Identification

At ambient temperature, Chinese Grade Bitumen AH 110 normally presents a low hazard. However, hot bitumen can cause serious thermal burns.

Main hazards:

- Hot material can cause severe skin burns.
- Vapors or fumes from heated bitumen may irritate the eyes and respiratory system.
- Spilled hot material can create slip and fire hazards.
- Hydrogen sulfide may accumulate in heated storage tanks under certain conditions.

3. Composition / Information on Ingredients

Component	Content
Petroleum Bitumen	Approx. 100%
CAS Number	8052-42-4

The material consists mainly of high-molecular-weight petroleum hydrocarbons.

4. First Aid Measures

Eye Contact:

Flush the eyes with clean water for at least 15 minutes. Seek medical attention if irritation continues. For contact with hot bitumen, obtain immediate medical assistance.

Skin Contact:

For cold material, wash the affected area with soap and water. For hot bitumen, cool the burned area immediately with clean running water. Do not remove solidified bitumen from the skin. Seek medical attention.

**Inhalation:**

Move the affected person to fresh air. If breathing difficulty continues, seek medical assistance.

Ingestion:

Do not induce vomiting. Rinse the mouth and seek medical advice if necessary.

5. Fire-Fighting Measures**Suitable Extinguishing Media:**

- Dry chemical powder
- Foam
- Carbon dioxide
- Water fog

Do not direct a strong water jet onto hot bitumen because it may cause splashing.

Hazardous Combustion Products:

Fire may produce carbon monoxide, carbon dioxide, sulfur compounds, smoke, and hydrocarbon fumes.

Protective Equipment:

Firefighters should wear suitable protective clothing and self-contained breathing apparatus where necessary.

6. Accidental Release Measures

Keep unauthorized personnel away from the spill area.

For hot material:

- Allow the product to cool and solidify.
- Prevent the material from entering drains, waterways, or soil.
- Recover solid material mechanically.
- Place collected waste in suitable containers.

Avoid direct contact with hot bitumen.



7. Handling and Storage

Handling:

- Avoid contact with heated material.
- Prevent overheating.
- Use suitable pumps, pipelines, and insulated equipment.
- Maintain adequate ventilation around heated processing areas.
- Avoid breathing concentrated fumes.

Storage:

- Store in clean, dry, dedicated bitumen tanks or approved containers.
- Keep water away from hot bitumen.
- Prevent contamination with solvents, fuels, or incompatible chemicals.
- Follow controlled heating procedures.

Water entering hot bitumen tanks can cause dangerous foaming or splashing.

8. Exposure Controls / Personal Protection

Eye Protection:

Wear safety goggles or a face shield when handling heated material.

Hand Protection:

Use heat-resistant industrial gloves.

Body Protection:

Wear long sleeves, protective clothing, and suitable safety footwear.

Respiratory Protection:

Provide adequate ventilation. Use suitable respiratory protection if bitumen fumes exceed workplace exposure limits.



9. Physical and Chemical Properties

Property	Typical Description
Appearance	Black solid or semi-solid
Odor	Characteristic petroleum odor
Physical State at Ambient Temperature	Solid / semi-solid
Solubility in Water	Insoluble
Density	Typically around 1.0–1.1 g/cm ³
Flash Point	Generally above 220°C
Boiling Point	Not normally applicable
Auto-Ignition Temperature	High
Vapor Pressure	Very low at ambient temperature

Actual values can vary according to production source and specification.

10. Stability and Reactivity

Chinese Grade Bitumen AH 110 remains stable under normal storage and handling conditions.

Conditions to Avoid:

- Excessive heating
- Contact between hot bitumen and water
- Open flames
- Strong oxidizing agents

Hazardous Decomposition Products:

Thermal decomposition may generate carbon oxides, sulfur compounds, and hydrocarbon fumes.

11. Toxicological Information

Skin Contact:

Cold bitumen may cause mild irritation after prolonged contact. Heated bitumen can cause severe thermal burns.

**Eye Contact:**

Fumes may cause temporary irritation.

Inhalation:

Prolonged exposure to concentrated bitumen fumes may cause headache, nausea, or respiratory irritation.

Ingestion:

Ingestion is unlikely during normal industrial use.

Good industrial hygiene and proper ventilation reduce exposure risks.

12. Ecological Information

Bitumen has very low water solubility. Therefore, it generally shows limited mobility in soil and water.

However:

- Prevent large releases into the environment.
- Do not discharge the product into drains or waterways.
- Recover spilled solid material whenever possible.

13. Disposal Considerations

Dispose of waste according to local environmental regulations.

Where permitted, companies may recycle or recover uncontaminated bitumen. Dispose of contaminated packaging and waste through authorized waste-management contractors.

14. Transport Information

At ambient temperature, solid bitumen may not fall under dangerous-goods transport classifications in many jurisdictions.

Hot bitumen transported at elevated temperatures may fall under specific transport requirements.

Possible transport designation for hot material:

Elevated Temperature Liquid, N.O.S.



Always confirm the applicable ADR, IMDG, IATA, or local transport rules before shipment.

15. Regulatory Information

Users must follow applicable occupational safety, environmental, transport, storage, and chemical regulations in the destination country.

The exact classification may depend on the product temperature, transport method, local legislation, and shipment conditions.

16. Other Information

This MSDS provides general safety information for **Chinese Grade Bitumen AH 110**. Actual product properties and regulatory classifications may vary according to refinery source, production batch, local legislation, and transportation conditions.

Basekim recommends that buyers review the latest **TDS, COA, and shipment-specific SDS/MSDS** before handling or using the product.