



SAFETY DATA SHEET (SDS/MSDS)

Chinese Standard Bitumen AH 70 (Paving Grade Petroleum Asphalt)

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SECTION 1: Identification

Item	Detail
Product Name	Chinese Standard Bitumen AH 70
Synonyms	AH-70 Bitumen, AH70 Asphalt, 70# Bitumen, Paving Grade Bitumen, Petroleum Asphalt
Product Use	Road construction, hot mix asphalt production, paving and pavement maintenance
Supplier/Exporter	Basekim
Emergency Contact	Refer to shipment-specific emergency contact information provided with the order

SECTION 2: Hazard(s) Identification

Bitumen is not classified as a flammable liquid under normal ambient conditions but presents hazards primarily related to elevated application temperatures.

Key hazards:

- Thermal burns from contact with hot product (typically applied well above 100°C)
- Irritation to eyes and skin from direct contact
- Respiratory irritation from inhalation of fumes generated during heating
- Slipping hazard from spilled material
- Possible long-term health effects from repeated occupational exposure to bitumen fumes (see Section 11)

GHS Classification (general reference): Bitumen at ambient temperature is generally not classified as acutely hazardous under GHS. Hazards mainly arise from thermal handling conditions rather than the intrinsic chemical toxicity of the material at room temperature. Buyers should confirm exact classification against the current regulatory framework of the destination country.



Precautionary Statements:

- Avoid contact with hot product
- Use heat-resistant PPE when handling
- Avoid breathing fumes; ensure adequate ventilation
- Keep away from open flame and ignition sources during heating

SECTION 3: Composition / Information on Ingredients

Bitumen is a complex mixture of hydrocarbons derived from petroleum refining. It does not contain a fixed single chemical formula, and exact composition varies by crude source and refining process. No intentionally added hazardous ingredients are present under normal production conditions.

SECTION 4: First-Aid Measures

Exposure Route	First-Aid Response
Skin Contact (hot bitumen)	Do not attempt to peel material from skin. Cool the affected area immediately with large amounts of cold water. Do not remove adhered bitumen. Seek medical attention promptly, as with any thermal burn.
Skin Contact (cooled bitumen)	Remove with a suitable emollient or mineral oil rather than solvents; wash with soap and water.
Eye Contact	Flush immediately with clean water for at least 15 minutes, holding eyelids open. Seek medical attention.
Inhalation	Move the affected person to fresh air. Seek medical attention if breathing difficulty, coughing, or irritation persists.
Ingestion	Unlikely under normal use. Do not induce vomiting. Seek medical attention.

SECTION 5: Fire-Fighting Measures

- **Suitable extinguishing media:** Dry chemical, foam, carbon dioxide, or water fog.
- **Unsuitable media:** Direct water jet, which can cause splattering of hot material.
- **Specific hazards:** Bitumen fumes can be released when heated; avoid inhalation. Containers may rupture if exposed to fire due to internal pressure build-up.
- **Firefighter protection:** Use self-contained breathing apparatus and full protective equipment in enclosed or poorly ventilated fire situations.



SECTION 6: Accidental Release Measures

- **Personal precautions:** Keep unnecessary personnel away. Allow spilled hot material to cool before handling, where safe to do so.
- **Environmental precautions:** Prevent entry into drains, waterways, or soil where practical.
- **Containment and cleanup:** Once cooled and solidified, bitumen can typically be mechanically removed (scraped, broken up) and collected for disposal. While molten, contain with sand, earth, or other inert absorbent material where safe to approach.

SECTION 7: Handling and Storage

- Handle only with appropriate heat-resistant PPE.
- Store in a dry, well-ventilated area away from open flame, sparks, and other ignition sources.
- Maintain heated storage tanks within a controlled temperature range; avoid prolonged overheating, which can increase fume generation and affect product properties.
- Prevent contamination with water, which can cause foaming or splattering when the product is subsequently heated.
- Keep containers closed when not in use and clearly labeled.

SECTION 8: Exposure Controls / Personal Protection

Control Measure	Recommendation
Ventilation	Use local exhaust ventilation where bitumen is heated, mixed, or applied in enclosed spaces
Eye Protection	Safety goggles or face shield when handling hot product
Skin Protection	Heat-resistant gloves, long sleeves, and protective clothing rated for hot bitumen contact
Respiratory Protection	Use appropriate respiratory protection where fume concentrations may exceed applicable occupational exposure limits, particularly in enclosed or poorly ventilated areas
Occupational Exposure Limits	Refer to the applicable exposure limits for bitumen fumes in the country of use, as limits vary by jurisdiction



SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Black, semi-solid to solid at ambient temperature
Odor	Characteristic petroleum/asphalt odor
Softening Point	≥46°C (Ring & Ball)
Flash Point (COC)	≥260°C
Density at 15°C	1.00 – 1.10 g/cm ³
Solubility in Water	Insoluble
Solubility in Trichloroethylene	≥99.5%

For full technical property values, refer to the product's Technical Data Sheet (TDS).

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions.
- **Conditions to avoid:** Prolonged exposure to high temperatures beyond recommended application ranges; contact with strong oxidizing agents.
- **Hazardous decomposition products:** Heating beyond recommended temperatures may release hydrocarbon vapors, hydrogen sulfide, and other combustion or decomposition products.
- **Hazardous polymerization:** Does not occur under normal conditions.

SECTION 11: Toxicological Information

- **Acute effects:** Primary hazard at ambient temperature is mechanical/thermal (burns from hot product) rather than acute chemical toxicity. Fume inhalation may cause irritation to the respiratory tract, eyes, and mucous membranes.
- **Chronic effects:** Regulatory bodies, including the International Agency for Research on Cancer (IARC), have evaluated occupational exposure to bitumen and bitumen fume emissions in specific industrial settings (such as paving and roofing) and classified certain exposure scenarios as possibly or probably carcinogenic to humans, depending on the application and bitumen type. This classification relates to occupational exposure conditions and fume inhalation rather than the packaged product itself. Buyers and users should apply appropriate exposure controls and consult the applicable regulatory classification for their jurisdiction and application.



- **Skin/eye contact:** May cause irritation on prolonged or repeated contact; hot material causes thermal burns.

SECTION 12: Ecological Information

- Bitumen is not readily soluble in water and is not expected to be highly mobile in the environment once solidified.
- Avoid release into waterways, soil, or drainage systems.
- Environmental impact primarily relates to physical smothering or contamination rather than acute aquatic toxicity, though local environmental regulations should be followed for any release.

SECTION 13: Disposal Considerations

- Dispose of in accordance with local, national, and international regulations.
- Solidified bitumen waste may often be handled as inert or non-hazardous waste, subject to local classification; confirm with local waste authorities.
- Do not dispose of into drains, waterways, or open land.
- Empty packaging (drums) should be handled according to local regulations for petroleum product containers.

SECTION 14: Transport Information

Item	Detail
UN Number	Not classified as dangerous goods under normal transport conditions (solid/semi-solid, ambient temperature)
Transport in Molten State	May be subject to specific dangerous goods provisions in some jurisdictions due to elevated temperature; confirm with carrier and applicable transport regulations
Packaging Group	Not applicable for solid, ambient-temperature product

Buyers arranging bulk or heated tanker transport should confirm applicable IMDG, ADR, or other regional transport regulations for molten bitumen shipments.



SECTION 15: Regulatory Information

This product should be evaluated against the chemical inventory and hazard communication regulations of the destination country (e.g., REACH, TSCA, GHS-based regulations, or other applicable national frameworks). Buyers are responsible for confirming import compliance and workplace safety regulations applicable to their location.

SECTION 16: Other Information

This Safety Data Sheet provides general reference information for Chinese Standard Bitumen AH 70 and is not a substitute for a batch-specific SDS. Hazard information, exposure limits, and regulatory classifications can vary by production source, destination country, and current regulatory updates. Buyers and end users should request the current, shipment-specific SDS from the supplier and consult a qualified safety professional before use.

Disclaimer: The information provided is believed to be accurate based on general knowledge of petroleum bitumen products. It is provided in good faith for reference purposes and does not constitute a guarantee of specific properties or regulatory compliance for any given shipment. Basekim recommends that buyers request the current, batch-specific SDS prior to handling, transport, or use.

Supplier/Exporter: Basekim For the current shipment-specific SDS, please contact your Basekim representative.