



MSDS / SDS — Safety Data Sheet

1. Identification

Product name: Bitumen AP-1

Recommended use: Asphalt binder for road, waterproofing, coating, sealant, adhesive, and roofing applications.

2. Hazards Identification

At ambient temperature, bitumen is generally low-volatility. Main hazards arise when heated: hot product can cause severe burns, and fumes may irritate eyes, skin, nose, throat, and respiratory system. Some bitumen products may release hydrogen sulfide during handling, especially in heated or confined-space conditions.

3. Composition

Petroleum-derived bitumen/asphalt binder. Typical asphalt CAS: 8052-42-4; some oxidized/paving bitumen SDSs use CAS 64742-93-4 depending on manufacturing route. Confirm exact CAS from supplier COA/SDS.

4. First Aid Measures

Inhalation: Move to fresh air. Get medical help if symptoms continue.

Skin contact, cold product: Wash with soap and water. Do not use solvents.

Skin contact, hot product: Cool affected area with water; do not try to remove solidified bitumen from skin. Seek medical attention.

Eye contact: Rinse carefully with water and seek medical attention if irritation or burns occur.

Ingestion: Do not induce vomiting; seek medical advice.

5. Firefighting Measures

Suitable extinguishing media: Foam, dry chemical powder, CO₂, water spray, or sand.

Avoid strong water jets. Combustion/decomposition may produce smoke, carbon monoxide, sulfur oxides, nitrogen oxides, and hydrogen sulfide.

6. Accidental Release Measures

Keep people away from hot material. Use heat-resistant PPE. Prevent entry into drains, soil, and waterways. Allow molten product to cool and solidify, then collect mechanically.

7. Handling and Storage

Handle in well-ventilated areas. Avoid breathing fumes from heated product. Keep heating temperature as low as practical for use. Avoid confined-space entry unless tested and ventilated. Store away from ignition sources, oxidizers, and water contamination.



8. Exposure Controls / PPE

Use local exhaust ventilation when heated. Wear chemical/heat-resistant gloves, protective clothing, safety goggles or face shield, and safety footwear. Use respiratory protection where fumes or hydrogen sulfide may be present.

9. Physical and Chemical Properties

Appearance: Black/brown solid or semi-solid asphalt binder

Odor: Petroleum/asphalt-like

Flash point: >230°C

Specific gravity: ~1.01

Solubility in TCE: >99%

Softening point: 46–52°C

Penetration: 80–100 dmm

10. Stability and Reactivity

Stable under normal storage and handling. Avoid excessive heating, open flames, strong oxidizing agents, and confined-space vapor accumulation.

11. Toxicological Information

Cold product is expected to have low acute toxicity. Heated fumes may irritate eyes, skin, and respiratory tract and may cause headache, dizziness, or nausea in overexposure situations.

12. Ecological Information

Avoid environmental release. Bitumen is not readily biodegradable; bioaccumulation is generally considered unlikely because of high molecular weight.

13. Disposal Considerations

Dispose of cooled solid waste and contaminated packaging according to local regulations. Do not discharge into drains or waterways.

14. Transport Information

Not normally regulated as dangerous goods when transported cold/solid. Hot transport classification depends on temperature and local regulations.

15. Regulatory Information

Classification may vary by jurisdiction and exact formulation. Confirm final GHS/CLP, REACH, OSHA, and transport status with supplier documentation.

16. Other Information

Prepared as a draft based on BASEKIM product information and general bitumen SDS



references. Final SDS must be validated against actual COA, formulation, country of sale, and regulatory requirements.