



Material Safety Data Sheet (MSDS)

Bitumen 80/100

SECTION 1: Identification

Product Name: Bitumen 80/100

Product Type: Penetration Grade Bitumen

Recommended Use: Road construction, asphalt production, paving, waterproofing, industrial applications.

Supplier: BASEKIM Chemical Products LLC

SECTION 2: Hazard Identification

GHS Classification

Bitumen 80/100 is generally **not classified as hazardous** in solid or ambient conditions.

Hazards

- Hot material may cause severe thermal burns.
- Heated product releases fumes that may irritate eyes and respiratory system.
- Slippery when spilled.
- Combustible at elevated temperatures.

Precautionary Statements

- Avoid breathing hot vapors.
- Avoid skin contact with hot material.
- Wear suitable PPE.
- Keep away from ignition sources when heated.

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration
Petroleum Bitumen	8052-42-4	>99%

Contains no hazardous additives under normal conditions.

SECTION 4: First Aid Measures

Eye Contact

- Cold product: Flush with water if irritation occurs.
- Hot product: Immediately cool with clean cold water for at least 15 minutes.
- Do not remove adhered bitumen.
- Obtain immediate medical attention.

Skin Contact

- Cold product: Wash with soap and water.
- Hot product: Cool burn with plenty of cold water.
- Do not attempt to peel hardened bitumen from skin.
- Seek medical attention.

Inhalation

- Move affected person to fresh air.
- Keep comfortable for breathing.



- Seek medical advice if symptoms persist.

Ingestion

- Do not induce vomiting.
- Rinse mouth.
- Obtain medical attention.

SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media

- Dry chemical
- Foam
- Carbon dioxide (CO₂)
- Dry sand

Unsuitable Media

- Direct water jet

Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Smoke

Protective Equipment

Wear self-contained breathing apparatus (SCBA) and full protective clothing.

SECTION 6: Accidental Release Measures

- Allow hot material to cool before removal.
- Prevent entry into drains and waterways.
- Collect solidified material mechanically.
- Dispose according to local regulations.
- Use sand or absorbent material for small spills.

SECTION 7: Handling and Storage

Handling

- Avoid overheating.
- Use adequate ventilation.
- Prevent contact with hot product.
- Wear heat-resistant gloves and face protection.

Storage

- Store in clean, dry tanks or containers.
- Keep away from strong oxidizing agents.
- Protect from contamination.
- Recommended storage temperature: **120–160°C** when heated for handling.

SECTION 8: Exposure Controls / Personal Protection

Engineering Controls

- Local exhaust ventilation when heated.

**Eye Protection**

- Safety goggles
- Face shield when handling hot material

Hand Protection

- Heat-resistant gloves

Body Protection

- Protective clothing
- Long sleeves
- Safety footwear

Respiratory Protection

- Normally not required.
- Use suitable respirator if ventilation is inadequate during heating.

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Black solid/semi-solid
Odor	Mild petroleum odor
Penetration @25°C	80–100 dmm
Softening Point	42–52°C
Flash Point (COC)	>230°C
Density @25°C	1.00–1.06 g/cm ³
Solubility	Insoluble in water
Auto-Ignition Temperature	>300°C

SECTION 10: Stability and Reactivity**Chemical Stability**

Stable under recommended storage conditions.

Conditions to Avoid

- Excessive heating
- Open flames
- Strong oxidizers

Hazardous Decomposition Products

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Hydrocarbon fumes

SECTION 11: Toxicological Information**Likely Routes of Exposure**

- Skin contact
- Eye contact

**Acute Effects**

- Thermal burns from hot material
- Eye irritation from fumes
- Respiratory irritation during heating

Chronic Effects

No significant chronic hazards expected under normal industrial use.

SECTION 12: Ecological Information

- Not readily biodegradable.
- Insoluble in water.
- May persist in the environment.
- Prevent release into soil, drains, and waterways.

SECTION 13: Disposal Considerations

Dispose of waste material according to applicable local, regional, and national regulations. Do not discharge into drains or natural watercourses.

SECTION 14: Transport Information

Item	Information
UN Number	Not regulated (ambient temperature)
Proper Shipping Name	Bitumen
Hazard Class	Not classified
Packing Group	Not applicable

Hot liquid bitumen transported above 100°C may be regulated under local or international transport requirements.

SECTION 15: Regulatory Information

Comply with applicable occupational safety, environmental, and transport regulations in the country of use.

SECTION 16: Other Information

This MSDS describes the safety requirements for **Bitumen 80/100** under normal industrial handling conditions. The information is believed to be accurate but is provided without warranty. Users are responsible for ensuring safe handling, storage, transportation, and compliance with

Revision: 1.0

Revision Date: July 2026

Prepared for: BASEKIM Chemical Products LLC