



Material Safety Data Sheet (MSDS)

Bitumen 30/40

Product Name: Bitumen 30/40

Synonyms: Asphalt Binder 30/40, Penetration Grade Bitumen 30/40

Product Type: Petroleum Asphalt / Bitumen

Recommended Use: Road paving, airport runways, highways, heavy-duty pavements, asphalt production, and industrial applications.

Section 1: Identification

Product Name: Bitumen 30/40

Manufacturer: Basekim Chemical Products LLC

Emergency Contact: Available upon request

Section 2: Hazard Identification

Classification (GHS)

Bitumen 30/40 is generally **not classified as hazardous** at ambient temperature.

Hazards mainly occur when the product is heated.

Main Hazards

- Hot molten bitumen can cause severe thermal burns.
- Heated product may release irritating fumes.
- Contact with eyes may cause irritation.
- Inhalation of excessive vapors may cause headache or respiratory irritation.
- Slippery when spilled.

GHS Precautionary Statements

- Avoid breathing fumes.
- Wear protective gloves and eye protection.
- Avoid skin contact with hot material.
- Wash thoroughly after handling.

Section 3: Composition / Information on Ingredients

Component	CAS Number	Content
Petroleum Bitumen	8052-42-4	>99%

Contains no hazardous additives under normal conditions.

Section 4: First Aid Measures

Inhalation

Move affected person to fresh air.

If symptoms persist, seek medical attention.

Skin Contact

Cold Bitumen:

Wash with soap and water.



Hot Bitumen:

- Cool immediately with cold running water.
- Do NOT attempt to remove adhered bitumen.
- Cover with sterile dressing.
- Seek immediate medical treatment.

Eye Contact

Flush eyes with clean water for at least 15 minutes.

Remove contact lenses if possible.

Seek medical attention.

Ingestion

Not expected under normal use.

Do not induce vomiting.

Obtain medical advice.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media

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

Unsuitable Media

Do not use direct water jet.

Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Smoke

Protective Equipment

Wear self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Cold Product

Collect mechanically.

Dispose according to local regulations.

Hot Product

Allow material to cool before removal.

Prevent entry into drains or waterways.

Wear suitable PPE.

Section 7: Handling and Storage

Handling

- Avoid overheating.
- Use proper ventilation.



- Avoid inhalation of fumes.
- Prevent contact with molten material.

Storage

Store in:

- Dry location
- Covered tanks
- Away from strong oxidizing agents
- Recommended storage temperature:
140–170°C (only during handling)

Avoid prolonged overheating.

Section 8: Exposure Controls / Personal Protection**Engineering Controls**

Provide adequate ventilation.

Personal Protective Equipment**Respiratory Protection**

Use respiratory protection when ventilation is insufficient.

Eye Protection

Safety goggles or face shield.

Hand Protection

Heat-resistant gloves.

Body Protection

Long sleeves.

Heat-resistant clothing.

Safety shoes.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Black solid or semi-solid
Odor	Mild petroleum odor
Penetration	30–40 dmm
Softening Point	Approximately 52–60°C
Density @25°C	Approximately 1.01–1.06 g/cm ³
Solubility in Water	Insoluble
Flash Point	>230°C
Auto-Ignition Temperature	>300°C

Section 10: Stability and Reactivity

Stable under recommended storage conditions.

Avoid

- Excessive heat



- Strong oxidizers
- Open flames

Hazardous Decomposition

May produce:

- Carbon monoxide
- Carbon dioxide
- Hydrogen sulfide (small quantities under severe heating)

Section 11: Toxicological Information**Acute Toxicity**

Low toxicity under normal handling.

Skin Contact

Hot product causes severe burns.

Eye Contact

Hot material causes serious eye injury.

Inhalation

High concentrations of fumes may cause:

- Headache
- Dizziness
- Respiratory irritation

Chronic Effects

Prolonged exposure to bitumen fumes at elevated temperatures should be minimized.

Section 12: Ecological Information

- Insoluble in water.
- Low mobility in soil after cooling.
- Avoid uncontrolled release into the environment.
- Not readily biodegradable.

Section 13: Disposal Considerations

Dispose of waste according to local environmental regulations.

Recycle whenever practical.

Do not discharge into drains or watercourses.

Section 14: Transport Information

Bitumen 30/40 is generally **not classified as dangerous goods** when transported in solid form.

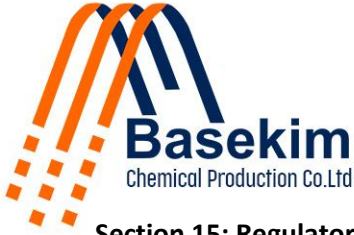
Molten bitumen transported at elevated temperature may be regulated according to applicable transport rules.

UN Number (Molten Product): UN 3257

Proper Shipping Name: Elevated Temperature Liquid, N.O.S. (Bitumen)

Hazard Class: 9

Packing Group: III (where applicable)



Section 15: Regulatory Information

Handle according to applicable national and local occupational safety, health, and environmental regulations.

CAS Number: **8052-42-4**

GHS Label Elements may apply when transported or handled in molten form.

Section 16: Other Information

Bitumen 30/40 is a hard penetration grade bitumen commonly used in regions with warm climates and under heavy traffic conditions. The product is stable under normal storage conditions; however, heating generates fumes that require adequate ventilation and appropriate personal protective equipment. Personnel handling molten bitumen should be trained in burn prevention and emergency response procedures.