



## Material Safety Data Sheet (Bitumen50/70)

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Bitumen

**Product Use:** Bituminous binder for construction and industrial applications

**Product Number(s):** 601108, 601109, 601110

**Synonyms:** Bitumen 80/100, Penetration Grade Bitumen

**Company Identification:**

**Basekim Kimyasal Ürünler LTD**

Turan Güneş Blv. İlkbahar Mah. Sinpaş Altınoran Tower 2, Floor Unit 146, Ankara, Turkey

**Transportation Emergency Response:**

**Logistic:** 88552948

**Health Emergency:**

Basekim Emergency Information Center, located in Ankara. International collect calls accepted.

☎ (312) 514 70 55 or (312) 514 70 81

**Product Information / MSDS Requests:**

☎ (312) 514 70 55 / (312) 514 70 81

### SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS Number | Amount |
|-----------|------------|--------|
| Bitumen   | 8052-42-4  | 100%   |

### SECTION 3 – HAZARDS IDENTIFICATION

#### IMMEDIATE HEALTH EFFECTS

- **Eye Contact:** Not expected to cause significant irritation. Hot bitumen may cause thermal burns.
- **Skin Contact:** No prolonged irritation expected. Heated product may cause burns.
- **Ingestion:** Not expected to be harmful.
- **Inhalation:** Vapors/fumes may cause respiratory irritation. Hydrogen sulfide exposure may lead to severe symptoms.



#### DELAYED OR OTHER HEALTH EFFECTS

- **Cancer:** Possible carcinogenic effects. Insufficient human data available.

### SECTION 4 – FIRST AID MEASURES

- **Eye:** Flush with water for 15 minutes. Seek medical attention for burns.
- **Skin:** Remove contaminated clothes. Use mineral oil or petroleum jelly to clean.
- **Ingestion:** Do not induce vomiting. Get medical advice.
- **Inhalation:** Move to fresh air. Provide oxygen or artificial respiration if needed.

### SECTION 5 – FIRE FIGHTING MEASURES

- **Flash Point:** 230°C – 260°C
- **Autoignition:** 485°C
- **Flammability Limits:** 0.7% – 6%

**Extinguishing Media:** Foam, dry chemical, water fog, CO<sub>2</sub>

**Fire Fighting:** Use self-contained breathing apparatus. Beware of toxic gases (CO, CO<sub>2</sub>, SO<sub>x</sub>)

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Eliminate ignition sources
- Allow hot product to cool before handling
- Use absorbent materials and contain the spill
- Notify authorities if necessary



## SECTION 7 – HANDLING AND STORAGE

- Store between 135–163°C
- Avoid water contact with hot bitumen
- Prevent inhalation of vapors
- Use only vented containers
- Beware of pyrophoric materials in tanks

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

- ACGIH TLV: 0.5 mg/m<sup>3</sup> (inhalable fume)

### Engineering Controls:

- Ventilation and fume extraction

### PPE:

- Eye: Safety glasses/goggles
- Skin: Protective gloves/clothing
- Respiratory: Organic vapor respirator if necessary

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| Property       | Value          |
|----------------|----------------|
| Color          | Black          |
| Physical State | Semi-solid     |
| Odor           | Petroleum-like |



|                  |                    |
|------------------|--------------------|
| Boiling Point    | 350 – 470°C        |
| Specific Gravity | 1.01 – 1.06 @ 25°C |
| Solubility       | Insoluble in water |
| Flash Point      | 230 – 260°C        |

## SECTION 10 – STABILITY AND REACTIVITY

- **Stability:** Stable
- **Incompatibility:** Strong acids/oxidizers
- **Decomposition:** CO, CO<sub>2</sub>, SO<sub>x</sub>
- **Polymerization:** Will not occur

## SECTION 11 – TOXICOLOGICAL INFORMATION

- **Eye/Skin Irritation:** Mild
- **Acute Toxicity:** Low
- **Carcinogenicity:** IARC 2B (possible human carcinogen)
- **Mutagenicity:** Weakly positive in Ames test

## SECTION 12 – ECOLOGICAL INFORMATION

- **Ecotoxicity:** Not expected to be harmful
- **Biodegradability:** Not readily biodegradable

## SECTION 13 – DISPOSAL CONSIDERATIONS



- Recycle or dispose as per local regulations
- Avoid release to environment

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## SECTION 14 – TRANSPORT INFORMATION

- **DOT / IMO / IATA:** No regulations for cold shipment

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## SECTION 15 – REGULATORY INFORMATION

- Bitumen: Listed under IARC 2B
- Complies with TSE inventory
- **EU R-Phrases:** S61 – Avoid release to environment

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## SECTION 16 – OTHER INFORMATION

**Prepared by:** Basekim Kimyasal Ürünler LTD  
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