



Material Safety Data Sheet (Bitumen 160/220)

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: 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, CO₂

Fire Fighting: Use self-contained breathing apparatus. Beware of toxic gases (CO, CO₂, SO_x)

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/m³ (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, CO₂, SO_x
- **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

SECTION 14 – TRANSPORT INFORMATION

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

SECTION 15 – REGULATORY INFORMATION

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

SECTION 16 – OTHER INFORMATION

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