



Material Safety Data Sheet (MSDS)

Cutback Bitumen

Prepared in accordance with ISO 11014-1 and GHS Standards

Section 1 – Identification of Substance and Supplier

Product Name: Cutback Bitumen

Chemical Family: Bituminous binder dissolved in petroleum distillates

Intended Applications: Road construction, prime coat, tack coat, dust suppression, surface dressing

Common Grades: MC-30, MC-70, MC-250, MC-800, MC-3000, RC-30, RC-70, RC-250, RC-800, RC-3000, SC-30, SC-70, SC-250, SC-800, SC-3000

Manufacturer / Supplier:

Basekim Kimyasal Ürünler LTD

Turan Gunes Blv., Ilkbahar Mah., Sinpas Altinoran Tower 2, Floor 1, Unit 146
Ankara, Turkey

Contact Numbers:

- Technical Inquiries: +90 312 514 7055
- Logistics: 88552948
- Emergency Response: +90 312 514 7081 (International collect calls accepted)



Section 2 – Composition / Ingredient Data

Component	CAS Number	Concentration Range
Petroleum Bitumen	8052-42-4	30–60%
Petroleum Distillates (Kerosene, Naphtha, or Diesel fractions)	64742-81-0 / 64742-48-9	40–70%

Contains volatile organic compounds (VOCs) and trace polycyclic aromatic hydrocarbons (PAHs).

Section 3 – Hazard Summary

Physical Appearance: Dark brown/black viscous liquid with solvent odor

Major Hazards:

- **Highly flammable liquid** — vapors can ignite explosively.
- Vapors may cause dizziness, headaches, and respiratory irritation.
- Prolonged skin contact may cause dermatitis.
- Toxic to aquatic organisms with long-term effects.

GHS Classification:

- Flammable Liquid – Category 3
- Skin Irritation – Category 2
- Specific Target Organ Toxicity (Single Exposure) – Category 3 (narcotic effects from vapors)
- Aquatic Chronic Toxicity – Category 2

Signal Word: Danger

Hazard Statements:

- H226: Flammable liquid and vapor



- H315: Causes skin irritation
- H336: May cause drowsiness or dizziness
- H411: Toxic to aquatic life with long-lasting effects

Section 4 – First Aid Measures

Exposure Route	Immediate Action
Inhalation	Move to fresh air. If breathing difficulty persists, administer oxygen and seek medical attention.
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice if irritation occurs.
Eye Contact	Flush gently with water for at least 15 minutes. Seek medical attention if irritation continues.
Ingestion	Do not induce vomiting — aspiration into lungs may cause chemical pneumonia. Seek immediate medical care.

Note to Physician: Treat symptomatically; be aware of solvent aspiration risk.

Section 5 – Firefighting Measures

- **Flash Point:** Typically 38–65°C (varies by grade)
- **Autoignition Temperature:** ~250°C
- **Extinguishing Media:** Foam, dry chemical, CO₂
- **Do Not Use:** Direct water stream on liquid — may spread fire
- **Special Hazards:** Vapors are heavier than air and can travel to ignition sources
- **Firefighter Protection:** Use self-contained breathing apparatus and full PPE



Section 6 – Accidental Release Response

- Eliminate all ignition sources immediately
- Contain spill with non-combustible absorbent (sand, earth, vermiculite)
- Avoid inhalation of vapors — use respiratory protection
- Prevent entry into drains, sewers, or waterways
- Dispose of in accordance with local regulations

Section 7 – Handling and Storage Recommendations

Safe Handling:

- Use only in well-ventilated areas
- Avoid breathing vapors or mists
- Ground/bond containers when transferring to prevent static discharge

Storage Requirements:

- Store in tightly closed containers away from heat, sparks, flames
- Keep in a cool, dry, well-ventilated place
- Comply with local flammable liquid storage regulations



Section 8 – Exposure Controls and Personal Protection

Occupational Exposure Limits:

- Petroleum Distillates (as total hydrocarbons): 200 mg/m³ (8-hr TWA) – ACGIH
- Bitumen Fumes: 0.5 mg/m³ – ACGIH

Engineering Controls:

- Provide explosion-proof ventilation at points of vapor release

PPE:

- Eyes:** Chemical splash goggles
- Skin:** Solvent-resistant gloves and protective clothing
- Respiratory:** Organic vapor respirator when exposure exceeds OEL

Section 9 – Physical & Chemical Properties

Property	Value / Range
State	Liquid
Color	Brown to black
Odor	Strong petroleum
Flash Point	38–65°C
Boiling Range	150–400°C
Density @ 25°C	0.95–1.05 g/cm ³



Viscosity	Grade-specific
Solubility in Water	Insoluble
Vapor Pressure	Variable (due to solvent content)

Section 10 – Stability & Reactivity

- **Stability:** Stable under normal conditions
- **Hazardous Reactions:** None under recommended handling
- **Incompatible Materials:** Strong oxidizing agents
- **Hazardous Decomposition:** CO, CO₂, smoke, and other hydrocarbons

Section 11 – Toxicological Information

- **Inhalation:** Solvent vapors may cause central nervous system depression
- **Skin Contact:** May cause defatting and dermatitis
- **Eye Contact:** Irritation possible from liquid or vapor
- **Ingestion:** Aspiration hazard into lungs can cause chemical pneumonitis
- **Chronic Effects:** Prolonged exposure may cause skin sensitization or respiratory effects

Section 12 – Environmental Information

- Harmful to aquatic organisms; may cause long-term effects in the environment
- Floats on water and spreads rapidly due to low viscosity



Section 13 – Disposal Considerations

- Dispose through licensed waste contractor
- Do not discharge into drains or waterways
- Incinerate under controlled conditions where permitted

Section 14 – Transport Information

- **UN Number:** UN 1999
- **Proper Shipping Name:** Tars, Liquid (including Cutback Bitumen)
- **Hazard Class:** 3 (Flammable Liquid)
- **Packing Group:** III
- **Label:** Flammable Liquid

Section 15 – Regulatory Information

- Classified as hazardous material under transport and chemical safety regulations
- All ingredients listed in major international inventories (TSCA, EINECS, etc.)

Section 16 – Additional Information

Revision Date: August 8, 2025

Prepared by: Basekim Kimyasal Ürünler LTD – Technical Department

Disclaimer:

Information provided is accurate to the best of our knowledge at the date of publication and is intended to guide safe handling, transport, and disposal of the product. No warranty is expressed or implied.