Basekim
Chemical Production Co.Ltd.

Material Safety Data Sheet (MSDS)

Bitumen PG 64-22

1. Identification of the Substance

- **Product Name:** Bitumen PG 64-22
- **Product Type:** Performance Graded Asphalt Binder
- **Recommended Use:** Road construction, asphalt paving, pavement rehabilitation
- **Supplier:** Available upon request
- **Emergency Use:** Industrial use only

2. Hazard Identification

Classification

- Not classified as hazardous under normal conditions
- Hazardous only when heated and handled at high temperatures

Potential Hazards

- Hot bitumen may cause **severe thermal burns**
- Fumes generated at high temperatures may irritate respiratory tract
- Prolonged skin contact may cause irritation

Hazard Symbols

- ⚠ Hot material
- ⚠ Burn hazard

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3. Composition / Information on Ingredients

Component	CAS Number	Concentration
Asphalt / Bitumen	8052-42-4	>99%
Polymer Modifiers	Proprietary	<1%

No hazardous additives under normal use.

4. First Aid Measures

Inhalation

- Move person to fresh air immediately
- Seek medical attention if irritation persists

Skin Contact

- Do **NOT** attempt to remove hot bitumen from skin
- Cool affected area with cold water
- Seek immediate medical assistance

Eye Contact

- Flush eyes gently with clean water for at least 15 minutes
- Seek medical attention immediately

Ingestion

- Do not induce vomiting
- Rinse mouth with water
- Seek medical attention

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical powder, CO_2
- **Unsuitable Media:** Water jet (may cause splashing)
- **Hazards:** Combustion may release CO, CO_2, sulfur oxides
- **Protective Equipment:** Firefighters must wear self-contained breathing apparatus

6. Accidental Release Measures

- Allow material to cool and solidify
- Remove mechanically using suitable tools
- Prevent entry into drains or waterways
- Wear protective equipment during cleanup

7. Handling and Storage

Handling

- Handle only by trained personnel
- Avoid skin contact with hot material
- Ensure adequate ventilation during heating

Storage

- Store in heated tanks between **140°C – 165°C**
- Avoid overheating above **175°C**
- Keep containers sealed and dry
- Prevent water contamination

8. Exposure Controls / Personal Protection

Engineering Controls

- Proper ventilation during heating and mixing

Personal Protective Equipment (PPE)

- Heat-resistant gloves
- Protective clothing
- Safety goggles or face shield
- Safety boots

9. Physical and Chemical Properties

Property	Description
Appearance	Black to dark brown solid
Odor	Mild petroleum odor
Solubility	Insoluble in water
Softening Point	Typical of PG 64-22
Flash Point	>230°C
Density	~1.01–1.06 g/cm³
State	Solid (at ambient temperature)

10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions
- **Reactivity:** Not reactive
- **Conditions to Avoid:** Overheating, water contact at high temperature
- **Hazardous Decomposition Products:** CO, CO_2, sulfur compounds

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11. Toxicological Information

- Low toxicity under normal industrial use
- No evidence of carcinogenicity in finished asphalt applications
- Prolonged exposure to fumes may cause irritation

12. Ecological Information

- Not biodegradable
- Avoid release into soil and water systems
- No acute environmental toxicity when handled properly

13. Disposal Considerations

- Dispose in accordance with local regulations
- Solidified material may be disposed as construction waste
- Do not discharge into drains or water bodies

14. Transport Information

- **UN Number:** Not regulated
- **Transport Hazard Class:** Not classified
- **Labeling:** Hot material – handle with care

15. Regulatory Information

- Complies with **AASHTO M320**
- Not classified as hazardous under GHS when used properly
- Follow local occupational safety regulations

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16. Other Information

- This MSDS is prepared for industrial and professional use
- Information provided is based on current knowledge and best practices

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