



## MATERIAL SAFETY DATA SHEET (MSDS)

### Petroleum Coke (Petcoke)

**Product Name:** Petroleum Coke

**Common Name:** Petcoke / Green Petroleum Coke / Calcined Petroleum Coke

**CAS Number:** 64743-05-1

**Chemical Nature:** Carbonaceous petroleum-derived solid

**Supplier:** Basekim Company

### 1. Hazard Identification

Petroleum Coke is a carbon-rich solid material. It is generally not classified as hazardous in bulk form; however, dust exposure requires control.

#### Potential hazards:

- Dust may irritate eyes, skin and respiratory system.
- Fine carbon dust may form combustible dust clouds.
- Prolonged inhalation of dust should be avoided.
- Contains trace metals and sulfur depending on grade.
- Spilled material may create slipping hazards.

**Signal Word:** Warning (for dust exposure)

### 2. Composition

| Component                     | Typical Content   |
|-------------------------------|-------------------|
| Carbon                        | Major component   |
| Sulfur                        | Grade dependent   |
| Volatile matter               | Grade dependent   |
| Ash                           | Grade dependent   |
| Moisture                      | Grade dependent   |
| Trace metals (Ni, V, Fe etc.) | Low concentration |



### 3. First-Aid Measures

**Inhalation:**

Move to fresh air. Seek medical advice if coughing, breathing irritation or discomfort continues.

**Eye contact:**

Rinse with clean water for at least 15 minutes.

**Skin contact:**

Wash with soap and water.

**Ingestion:**

Rinse mouth. Seek medical advice if large quantities are swallowed.

### 4. Firefighting Measures

Petroleum Coke is combustible.

Suitable extinguishing media:

- Water spray
- Foam
- Dry chemical powder
- Carbon dioxide

Burning may produce:

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Smoke and dust

Firefighters should use suitable protective equipment and breathing apparatus.

### 5. Accidental Release Measures

- Avoid creating airborne dust.
- Wear suitable protective equipment.



- Collect spilled material mechanically.
- Use vacuum equipment suitable for dust collection.
- Prevent uncontrolled release into drains and waterways.

## 6. Handling and Storage

- Avoid dust generation.
- Provide adequate ventilation during handling.
- Avoid breathing fine particles.
- Store in a dry area.
- Protect from excessive moisture.
- Keep away from ignition sources.
- Maintain good housekeeping around storage areas.

## 7. Personal Protection

### Eyes:

Safety glasses or goggles.

### Hands:

Protective gloves.

### Respiratory protection:

Use an approved dust respirator where airborne dust levels are high.

### Body protection:

Suitable protective clothing and safety footwear.

## 8. Physical and Chemical Properties

| Property         | Typical Information       |
|------------------|---------------------------|
| Appearance       | Black solid material      |
| Physical form    | Granules, lumps or powder |
| Odour            | Slight petroleum odour    |
| Colour           | Black                     |
| Water solubility | Insoluble                 |
| Density          | Grade dependent           |
| Flammability     | Combustible solid         |
| Carbon content   | High                      |



## 9. Stability and Reactivity

Stable under normal storage and handling conditions.

Avoid:

- Excessive heat
- Open flames
- Strong oxidising agents
- Dust accumulation

Thermal decomposition may generate carbon oxides and sulfur-containing fumes.

## 10. Toxicological Information

Possible exposure effects:

- Eye irritation from dust
- Respiratory irritation
- Skin dryness from repeated contact
- Discomfort from prolonged dust exposure

Avoid long-term exposure to airborne dust.

## 11. Environmental Information

Petroleum coke is not readily biodegradable.

Prevent large quantities from entering:

- Rivers
- Lakes
- Drainage systems
- Soil environments

Dust emissions should be controlled.

## 12. Disposal Considerations

Reuse or recycle where possible.





Dispose of waste material according to local regulations.

Avoid uncontrolled disposal in the environment.

### 13. Transport Information

Petroleum Coke is generally not classified as dangerous goods for standard transport.

**UN Number:** Not assigned

**Transport Class:** Not regulated

**Packing Group:** Not assigned

Transport should prevent dust release and product loss.

### 14. Regulatory Information

Regulatory classification may vary depending on:

- Sulfur content
- Heavy metal content
- Intended use
- Local regulations

Always refer to the current product specification and COA.

### 15. Disclaimer

This MSDS is a general safety document for Petroleum Coke. Product properties may vary according to source and grade (green coke or calcined coke). Confirm final specifications, sulfur content, ash content and trace metals through the supplier's Certificate of Analysis.