



Material Safety Data Sheet (MSDS)

Product Name: Carbon Black

Applicable Grades: N220, N330, N339, N550, N660, and all other grades

Supplier: Basekim

Section 1: Identification

- **Product Name:** Carbon Black
- **Chemical Formula:** C
- **Synonyms:** Furnace Black, Thermal Black, Channel Black
- **Intended Use:** Rubber reinforcement, pigment, plastics, coatings, inks, industrial applications
- **Supplier Details:**
 - Company Name:* Basekim
 - Location:* UAE, Turkey
 - Emergency Contact:* [Insert Phone Number]

Section 2: Hazard Identification

- **GHS Classification:**
 - Combustible dust
 - Category 2: Carcinogenicity (inhalation of excessive dust over long periods)
- **Signal Word:** Warning ⚠
- **Hazard Statements:**
 - May cause respiratory irritation.
 - Prolonged inhalation may cause lung effects.
 - Fine dust may form explosive mixtures in air.
- **Precautionary Statements:**
 - Avoid breathing dust.
 - Use protective clothing, gloves, and eye protection.
 - Ensure adequate ventilation.



Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration
Carbon Black	1333-86-4	100%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse thoroughly with water for several minutes. Seek medical care if irritation persists.
- **Ingestion:** Rinse mouth and seek medical advice if discomfort occurs.

Section 5: Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
- **Specific Hazards:** Dust clouds may be explosive in confined spaces.
- **Firefighting Instructions:** Wear full protective gear and self-contained breathing apparatus.

Section 6: Accidental Release Measures

- Avoid dust generation.
- Use vacuum or wet methods to clean up.
- Prevent entry into drains or waterways.
- Wear appropriate protective equipment.

Section 7: Handling and Storage

- **Handling:**
 - Avoid breathing dust and prevent eye/skin contact.
 - Ground equipment to avoid static discharge.
- **Storage:**
 - Store in a cool, dry, ventilated area.
 - Keep away from strong oxidizing agents and sources of ignition.



Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:**
 - OSHA PEL: 3.5 mg/m³
 - ACGIH TLV: 3.0 mg/m³ (inhalable fraction)
- **Personal Protection:**
 - **Respiratory Protection:** NIOSH-approved dust mask or respirator.
 - **Eye Protection:** Safety goggles or face shield.
 - **Skin Protection:** Gloves and protective clothing.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Fine black powder
Odor	Odorless
Density	1.8 – 2.1 g/cm ³
Solubility (water)	Insoluble
Flash Point	Not applicable
Auto-ignition Temperature	~400°C (752°F)

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizers like chlorine, nitric acid.
- **Hazardous Reactions:** None under recommended use.
- **Hazardous Decomposition Products:** CO, CO₂ during combustion.

Section 11: Toxicological Information

- **Acute Effects:**
 - May cause mild eye and skin irritation.
 - Inhalation may cause temporary respiratory discomfort.
- **Chronic Effects:**
 - Long-term inhalation of high concentrations may affect lung function.
 - Classified as possible human carcinogen (IARC Group 2B).



Section 12: Ecological Information

- **Ecotoxicity:** Non-toxic to aquatic life in solid form.
- **Persistence & Degradability:** Stable, not biodegradable.
- **Mobility:** Insoluble in water, low mobility in soil.

Section 13: Disposal Considerations

- Dispose of according to local, regional, and national regulations.
- Avoid release into the environment.
- Recycle when possible.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Carbon Black
- **Hazard Class:** Not classified as hazardous for transport
- **Packaging:** Bags, bulk containers, jumbo bags

Section 15: Regulatory Information

- OSHA, REACH, and GHS compliant.
- Not listed as a hazardous waste under U.S. EPA.

Section 16: Other Information

- **Preparation Date:** [Insert Date]
- **Revision Number:** 1.0
- This information is provided in good faith and should be used for safety guidance only. Basekim assumes no liability for misuse or misinterpretation.