

# Safety Data Sheet (SDS)

**Product Name:** Black Silicon Carbide  
**Revision Date:** 2024-05-06  
**Manufacturer:** Henan Sanhui New Materials Co., Ltd.



## 1. Identification

**Product Name:** Black Silicon Carbide  
**Recommended Use:** Abrasive media for grinding, polishing, blasting  
**Supplier:** Henan Sanhui New Materials Co., Ltd.  
**Contact:** info@sanhuiabrasives.com | Tel: +86-17803859504

## 2. Hazard Identification

**GHS Classification:** Not classified as hazardous  
**Label Elements:** None required  
**Hazards:** May cause mechanical irritation to eyes or skin through prolonged contact or inhalation of dust.

## 3. Composition / Information on Ingredients

Substance	CAS Number	Content
Silicon Carbide (SiC)	409-21-2	≥98.5%

## 4. First-Aid Measures

---

**Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.

**Skin Contact:** Wash with soap and water. Seek medical attention for irritation.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.

**Ingestion:** Rinse mouth. Seek medical advice if discomfort develops.

## 5. Fire-Fighting Measures

---

**Flammability:** Not flammable

**Suitable Extinguishing Media:** Use any media suitable for surrounding fire

**Protective Equipment:** Standard PPE and SCBA for surrounding fire conditions

## 6. Accidental Release Measures

---

Avoid generating dust. Use mechanical means to collect spilled material. Ventilate area and avoid dry sweeping.

## 7. Handling and Storage

---

**Handling:** Avoid inhalation of dust. Use proper PPE during handling.

**Storage:** Store in a dry, well-ventilated area in sealed containers.

## 8. Exposure Controls / Personal Protection

---

**Engineering Controls:** Local exhaust ventilation recommended

**Personal Protective Equipment:**

- Respiratory Protection: Dust mask or respirator
- Eye Protection: Safety goggles
- Skin Protection: Protective gloves and clothing

## 9. Physical and Chemical Properties

---

Appearance	Black crystalline powder or grit
Melting Point	~2700°C
Bulk Density	1.3–1.6 g/cm³
Hardness	9.2–9.5 (Mohs)
Solubility	Insoluble in water
Odor	Odorless
Flash Point	Not applicable

## 10. Stability and Reactivity

---

**Chemical Stability:** Stable under normal conditions

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** None known

## 11. Toxicological Information

---

**Routes of Exposure:** Inhalation, eye contact, skin contact

**Health Effects:** No acute toxicity; long-term exposure to dust may cause mechanical irritation or lung issues

## 12. Ecological Information

---

Not expected to pose environmental hazards. Insoluble in water and not biodegradable.

## 13. Disposal Considerations

---

Dispose of in accordance with local, regional, national, and international regulations. Avoid release into the environment.

## 14. Transport Information

---

**UN Number:** Not regulated

**Hazard Class:** Not classified

**Shipping Name:** Not applicable

**Packing Group:** Not applicable

## 15. Regulatory Information

---

This product complies with REACH, RoHS, and other applicable regional chemical safety regulations.

## 16. Other Information

---

This SDS is prepared in accordance with Globally Harmonized System (GHS). Ensure staff read and understand this information before handling.