



SAFETY DATA SHEET

- BLACK SILICON CARBIDE

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1. IDENTIFICATION

Product name: Black Silicon Carbide

Synonyms: Silicon Carbide, BSiC, SiC

Product Use: Bonded Abrasives, Bonded Abrasives, Polishing, Blasting, Anti-skid and Refractory Applications...

Restrictions On Use: No Information Available.

Formula: SiC

Supplier: Henan Becens Minerals Co.,Ltd.
Zhengzhou, Henan, China

Emergency Number: 008613838096145

Web: www.becens.com

2. HAZARDS IDENTIFICATION



Classification of a Substance or Mixture:

GHS08 Health Hazard

Carc. 1A, H350: May cause cancer via inhalation.



Additional Information:	<p>There are no other hazards not otherwise classified that have been identified.</p> <p>Zero (0) percent of the mixture consists of ingredient(s) of unknown toxicity.</p> <p>Long-term inhalation of product may be harmful.</p>
Label Element:	<p>GHS Label Elements</p> <p>The substance is classified and labeled according to the Globally Harmonized System (GHS)</p>
Signal Word:	DANGER
Hazard-determining Component of Labeling:	<p>Quartz (SiO₂)</p>
Hazard Statements:	<p>H350 May cause cancer via inhalation.</p> <p>The substance is classified and labeled according to the OSHA Globally Harmonized System (GHS) within the USA.</p>
Precautionary Statements:	<p>P280: Wear protective gloves / protective clothing / eye protection / face protection.</p> <p>P201: Obtain special instructions before use.</p> <p>P202: Do not handle until all safety precautions have been read and understood.</p> <p>P308+P313: If exposed or concerned: Get medical advice/ attention.</p> <p>P501: Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
Hazard Description:	<p>WHMIS Symbols (under old system): WHMIS System is being replaced by GHS System D2A Very toxic material causing other toxic effects.</p>

Classification System:

NFPA ratings (scale 0 - 4):

Health = 1

Fire = 0

Reactivity = 0

HMIS-Ratings (scale 0 - 4):



HEALTH	*1
FIRE	0
REACTIVITY	0

* Indicates a long-term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard

Substances 14808-60-7 Quartz (SiO₂)

Other Hazards:

Results of PBT and vPvB Assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SIC	98.5%min	CAS:409-21-2
F.C	0.30%max	CAS:7440-44-0
Fe2O3	0.80%max	CAS:1309-37-1
LMPURITIES	0.4%	

4. FIRST AID MEASURES

Description of First Aid Measures (No special measures required):

If Swallowed: Rinse out mouth and drink plenty of water. Do not induce vomiting; immediately call for medical help.

If on Skin: Brush off loose particles. Wash with soap and water. If skin irritation is experienced, consult a doctor.

If in Eyes: If possible, remove contacts (if worn). Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If Inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms or feels unwell, seek immediate medical attention.

Most important symptoms and effects, both acute and delayed:

Coughing

Gastric or intestinal

disorders Breathing

difficulty

Danger:

Danger of impaired breathing.

May cause cancer.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5. FIRE-FIGHTING MEASURES

Flash Point: Not Applicable

Flammable Limits: Lel: Not Applicable Uel: Not Applicable

Auto Ignition Temperatures: Not Applicable.

Extinguishing Media: Use Media Appropriate For Surrounding Fire.

Fire And Explosion Hazards: Non-Flammable. Non-Combustible. Product Will Not Burn.

Hazardous Decomposition Products: None

Fire Fighting Instructions: Wear Self-Containing Respiratory Protective Device. Wear Fully Protective Suit.

NFPA Classification: Health: 1 Flammability: 0 Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

For large spills, use respiratory protective device against the effects of fumes / dust / aerosol.

For large spills, wear protective clothing.

Avoid formation of dust.

Ensure adequate ventilation.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to Section 13. Send for recovery or disposal in suitable receptacles.

Reference to other sections:

See Section 7 for information on Safe Handling.

See Section 8 for information on Personal Protection Equipment. See Section 13 for Disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Prevent formation of dust.

Any deposit of dust that cannot be avoided must be regularly removed.

Use only in well ventilated areas.

Avoid breathing dust.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities: Storage

Requirements to be met by storerooms and receptacles: No special requirements. **Information about storage in one common storage facility:**

Store away from oxidizing agents.

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles. Store receptacle in a well ventilated area.

Protect from humidity and water.

This product is hygroscopic.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data – see Section 7.

CONTROL PARAMETERS:

Ingredients with Limit Values That Require Monitoring at the Workplace:

Silicon Carbide (Cas# 409-21-2):

PEL (USA) Long-term value: 15*; 5**

mg/m³ **Fibrous dust:** *Total dust; **

Respirable fraction

REL (USA) Long-term value: 10*, 5**mg/m³

*Total dust, **Respirable fraction.

TLV (USA) Long-term value: 10*, 3** mg/m³

Fibrous dust: 0.1 f/cc; nonfibrous: * inh., ** Respirable

EL (Canada) Long-term value: 10*, 3** mg/m³

*Inhalable; ** Respirable

EV (Canada) Long-term value: 10*, 3** mg/m³, 0.1 f/cc***

ppm Nonfibrous: * inh., ** Resp., *** Fibrous, resp.

Quartz (CAS# 14808-60-7):

PEL (USA) See Quartz listing.

REL (USA) Long-term value: 0.05* mg/m³

*Respirable dust; See Pocket Guide App. A

TLV (USA) Long-term value: 0.025* mg/m³.

*Respirable fraction

EL (Canada) Long-term value: 0.025 mg/m³ ACGIH A2; IARC 1

EV (Canada) Long-term value: 0.10* mg/m³

*Respirable fraction

Additional information: The lists that were valid during the creation were used as basis.

EXPOSURE CONTROLS:

Personal Protective Equipment (PPE): General Protective and Hygienic

measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid close or long-term contact with the skin.

Do not inhale dust / smoke / mist.

Engineering controls: No further relevant information available.

Breathing equipment:

Suitable respiratory protective device recommended.

Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable.

Protection of hands:

Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.

Gloves are advised for repeated or prolonged contact.

The glove material has to be impermeable and resistant to the product, substance, and preparation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Eye protection:

Safety glasses or goggles to prevent dust and particles from entering the eye.

Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

Limitation and supervision of exposure into the environment:

No special requirements.

Risk management measures:

No special requirements (see Section 7 for additional information.).

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:

Form: Granulate

Color: Black solid or Light Black-Grayish powder

Odor: Odorless

Odor threshold: Not determined.

pH-value: Neutral

Change in condition:

Melting point/Melting range: Does not melt but dissociates at about 2300 °C

Boiling point/Boiling range: Undetermined. Not applicable.

Flash point: Product is not flammable.

Flammability (solid, gaseous): Product is not flammable.

Auto-ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not applicable.

Density at 20 °C (68 °F): 3.20 g/cm³ (26.704 lbs./gal)

Relative density: Not determined.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with Water: Insoluble.

Partition coefficient (n-octanol/water): Not determined. **Viscosity:**

Dynamic: Not applicable.

Kinematic: Not applicable.

Formula: SiC

OTHER INFORMATION: No further relevant information available

10. STABILITY AND REACTIVITY

Chemical Stability:

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

Possibility of hazardous reactions:

Reacts with strong acids.

Reacts with oxidizing agents.

Reacts with strong alkali.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

Acute toxicity:

LD/LC50 values that are relevant for classification: None.

Primary irritant effect:

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes.

Sensitization: No sensitizing effects known.

Additional Toxicological Information: Carcinogenic if inhaled.

Carcinogenic Categories

NTP (National Toxicology Program): 14808-60-7 Quartz (SiO₂)

OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed.

Probable Routes of Exposure:

Ingestion

Inhalation.

Eye contact.

Skin contact.

Acute effects (acute toxicity, irritation and corrosively): From product as supplied: None.

Repeated Dose Toxicity:

Repeated or long-term inhalation of product dusts may cause pulmonary disease.

May cause cancer.

CMR Effects: Carc. 1A

12. ECOLOGICAL INFORMATION

Toxicity:

Aquatic Toxicity: Generally not hazardous for water.

Persistence & Degradability: No further relevant information available.

Behavior In Environmental System:

Bioaccumulative Potential: Does not accumulate in organisms.

Mobility In Soil: No further relevant information available.

Additional Ecological Information:

General Notes: Negative ecological effect are not expected, according to the current state of knowledge.

Other Adverse Effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:

Recommendation:

Smaller quantities can be disposed of with household waste.

Can be reused after reprocessing.

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

UNCLEANED PACKAGING:

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number DOT, ADR, ADN, IMDG, IATA: Not Regulated

UN proper shipping name DOT, ADR, ADN, IMDG, IATA: Not Regulated

Transport hazard class(s) DOT, ADR, ADN, IMDG, IATA Class: Not Regulated
Packing group DOT, ADR, IMDG, IATA: Not Regulated

Environmental hazards:

Marine pollutant: No

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act): Substance is listed.

Proposition 65 (California):

Chemicals known to cause cancer: CAS# 14808-60-7 Quartz (SiO₂)

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic Categories:

EPA (Environmental Protection Agency): Substance is not listed.

IARC (International Agency for Research on Cancer): 14808-60-7
Quartz (SiO₂), Carc. 1A

TLV (Threshold Limit Value established by ACGIH): 409-21-2 Silicon
Carbide (A2) 14808-60-7 Quartz (A2)

NIOSH-Ca (National Institute for Occupational Safety and Health): 14808-
60-7 Quartz (SiO₂)

State Right to Know Listings: Substance is not listed.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. KEY

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

DOT: Department of Transportation

IARC: International Agency for Research on

Cancer MSHA: Mine Safety and Health Administration

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

SARA: Superfund Amendment and Reauthorization Act

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

NOTICE

This SDS summarizes, to our best knowledge at the date of issue, the chemical, health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Henan Becens Minerals Co.,Ltd. cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Henan Becens Minerals Co.,Ltd. at the contact details on page 1. Becens responsibility for the material as sold is subject to its terms and conditions of sale, a copy of which is available upon request.