

## 1. IDENTIFICATION

<b>Product Identifier</b>	<b>Black Silicon Carbide</b>	
<b>Synonyms:</b>	Black SiC, Black SiC Macrogrits and Microgrits	
<b>CAS Number:</b>	409-21-2	
<b>Recommended Use:</b>	Abrasives, Refractories, Ceramics	
<b>Restrictions on Use:</b>	Contact manufacturer	
<b>Manufacturer/Supplier:</b>	<b>GNP Graystar</b> 37 John Glenn Dr. Amherst, NY 14228	<b>GNP Graystar</b> 9 Simmonsville Road Bluffton, SC 29910
<b>Emergency telephone number:</b>	716-759-6600	843-815-5600

## 2. HAZARD(S) IDENTIFICATIONS

### Classifications of the substance or mixture:



GHS08 Health Hazard  
Carc.1A H350 may cause cancer via inhalation

**Additional Information:** There are no other hazards not otherwise that have been identified. 0 percent of the mixture consists of ingredient(s) of unknown toxicity.

### Label Elements

**GHS Label Elements:** The substance is classified and labeled according to the Globally Harmonized System (GHS).

### Hazard Pictograms:



**Signal Word:** Danger

**Hazard-determining components of labeling:** Quartz (SiO<sub>2</sub>)

**Hazard Statements:** H350 may cause cancer via inhalation

### Precautionary Statement:

- P201** Obtain special instructions before use
- P202** Do not handle until all safety precautions have been read and understood
- P280** Wear protective gloves/protective clothing/eye protection/face protection
- P308+P313** If exposed or concerned: Get medical advice/attention
- P501** Dispose of contents/container in accordance with local/regional/national/international regulations

### Hazard Description:

**WHMIS- Symbols:**

As of 11 February 2015, the current WHMIS system is being replaced by the GHS system. This is the classification under the older system.



D2A Very toxic material causing other toxic effects

**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 (SiO<sub>2</sub>)

**Other Hazards:**

**Results of PBT and vPvB Assessment**

**PBT:** Not applicable  
**vPvB:** Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Characterization: Substances

**Dangerous Components:**

CAS No.:	EC No.:	Ingredient:	Weight %	Hazard Statement & Pictogram
14808-60-7	238-878-4	Quartz (SiO <sub>2</sub> )	0 – 1.0%	 Carc. 1A,H350

**4. FIRST-AID MEASURES**

<b>General Information:</b>	No special measures required
<b>After inhalation:</b>	Supply fresh air, consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing
<b>After skin contact:</b>	Brush off loose particles from skin Clean with water and soap If skin irritation continues, consult doctor
<b>After eye contact:</b>	Immediately remove contact lenses if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor

**After swallowing:** Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help

**Most important symptoms and effects, both acute and delayed:** Coughing  
Breathing difficulty  
Gastric or intestinal disorders

**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 & Emergency Procedures:** Avoid formation of dust  
Ensure adequate ventilation  
For large spills, wear protective clothing.  
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol

**Environmental Precautions:** No special measures required  
**Methods and Material for Containment and Cleaning Up:** Dispose contaminated materials as waste according to item 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 which cannot be avoided must be regularly removed.  
Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.  
Use only in well ventilated areas. Avoid breathing dust.

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

**Conditions for safe storage, including incompatibilities:**

**Requirements to be met by storerooms and receptacles:** No special requirements

**Information about storage in one common storage facility:** Store away from oxidizing agents

**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 information available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters** Components with limit values that require monitoring at the workplace:

### Silicon carbide (CAS #409-21-2):

**PEL (USA)** Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
fibrous dust: \*total dust \*\* respirable fraction

**REL (USA)** Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust\*\* respirable fraction

**TLV (USA)** Long-term value: 10\* 3\*\* mg/m<sup>3</sup>  
fibrous dust:0.1 f/cc; nonfibrous:\*inh.,\*\*resp.

**EL (Canada)** Long-term value: 10\* 3\*\* mg/m<sup>3</sup>  
\*inhalable;\*\*respirable

**EV (Canada)** Long-term value: 10\* 3\*\* mg/m<sup>3</sup>, 0.1f/cc\*\*\* ppm  
nonfibrous: \*inh.,\*\*resp.; \*\*\*fibrous, resp.

**LMPE (Mexico)** Long-term value: 10\* 3\*\* mg/m<sup>3</sup>  
fibroso:0.1f/cc,A2,F;no fibroso: \*inh.,\*\*resp.

### Quartz (CAS #14808-60-7)

**PEL (USA)** See Quartz listing

**REL (USA)** Long-term value: 0.05\* mg/m<sup>3</sup>  
\*respirable dust; See Pocket Guide App. A

**TLV (USA)** Long-term value: 0.025\* mg/m<sup>3</sup>  
\*respirable fraction

**EL (Canada)** Long-term value: 0.025 mg/m<sup>3</sup>  
ACGIH A2; IARC 1

**EV (Canada)** Long-term value: 0.10\* mg/m<sup>3</sup>  
\*respirable fraction

**Additional Information:** The lists that were valid during the creation were used as basis

### **Exposure Controls:**

**General Protective and Hygienic Measures:** The usual precautionary measures for handling chemicals should be followed.  
Wash hand 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.

<b>Engineering controls:</b>	No further relevant information available
<b>Eye/Face Protection:</b>	Safety glasses
<b>Skin Protections:</b>	Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules. The glove material must be impermeable and resistant to the product/ the substance/the preparation.
<b>Respiratory Protection:</b>	Suitable respiratory protective device recommended  Use suitable respiratory protective device in case of insufficient ventilation  For spills, respiratory protection may be advisable
<b>Material of Gloves</b>	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
<b>Body Protection:</b>	Not required under normal conditions of use.  Protection may be required for spills
<b>Limitation and Supervision of Exposure into the Environment:</b>	No special requirements
<b>Risk Management Measures:</b>	No special requirements

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Granulate
<b>Color</b>	Grey Black
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not determined
<b>pH</b>	neutral
<b>Melting/Freezing point</b>	2500 °C (4532 °F)
<b>Initial Boiling point/Boiling Range</b>	Undetermined
<b>Flash point</b>	Not applicable
<b>Flammability</b>	Product is not flammable
<b>Upper/Lower flammability explosive limit</b>	Not determined
<b>Vapor Pressure</b>	Not applicable
<b>Relative density</b>	Not determined
<b>Solubility</b>	Insoluble
<b>Partition coefficient</b>	Not determined
<b>Auto-ignition temperature</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>Viscosity</b>	Not applicable
<b>Explosive Properties</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Thermal Decomposition / Conditions to be Avoided:</b>	No decomposition if used and stored according to specifications
<b>Possibility of Hazardous Reactions:</b>	Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali
<b>Incompatible Materials:</b>	No further relevant information available
<b>Hazardous Decomposition:</b>	Carbon monoxide and carbon dioxide
<b>Conditions to Avoid:</b>	No further relevant information available

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

<b>LD/LC50 values that are relevant for classification:</b>	None
<b>On the skin:</b>	Slight irritant effect on skin and mucous membranes
<b>On the eye:</b>	Slight irritant effect on eyes
<b>Sensitization:</b>	No sensitizing effects known
<b>NTP (National Toxicology Program)</b>	14808-60-7 Quartz (SiO <sub>2</sub> )
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	Substance is not listed
<b>Probable Routes of Exposure</b>	Ingestion Inhalation Eye contact Skin contact
<b>Acute Effects (acute toxicity, irritation and corrosivity):</b>	From product as supplied: None
<b>Repeated Dose Toxicity:</b>	Repeated or long-term inhalation of product dusts may cause pulmonary disease. May cause cancer CMR Effects: Carc. 1A

## 12. ECOLOGICAL INFORMATION

<b>Aquatic Toxicity:</b>	Generally, not hazardous for water
<b>Persistence and degradability:</b>	No further relevant information available
<b>Other Adverse Effects:</b>	No further relevant information available
<b>Bio accumulative Potential:</b>	Does not accumulate in organisms
<b>Mobility in soil:</b>	No further relevant information available
<b>General notes:</b>	Negative ecological effects are, according to the current state of knowledge, not expected.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Treatment Methods:</b>	Smaller quantities can be disposed of with household waste Can be reused after reprocessing
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Contact waste processors for recycling information.  
The use 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

**Contaminated Packaging:** Disposal must be made according to official regulations

## 14. TRANSPORT INFORMATION

**Note: Not classified as a dangerous according to transport regulations.**

**DOT (US)** Not regulated  
**IMDG/IMO** Not regulated  
**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 UN "Model Regulation"**

## 15. REGULATORY INFORMATION

**SARA 313 Components:** Substance is not listed  
**SARA 355 Components:** Substance is not listed  
**TSCA** Substance is listed

**California Proposition 65:** Chemicals known to cause cancer: CAS #14808-60-7 – Quartz (SiO<sub>2</sub>)



**WARNING:** This product can expose you to chemicals including Quartz (SiO<sub>2</sub>), which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Chemicals known to cause reproductive toxicity to females:** Substance is not listed  
**Chemicals known to cause reproductive toxicity in 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 (SiO<sub>2</sub>) , Carc. 1A  
**TLV (Threshold Limit Value established by ACGIH):** 409-21-2 - Silicon Carbide  
14808-60-7 – Quartz (SiO<sub>2</sub>)  
**NIOSH-Ca (National Institute for Occupational Safety and Health):** 14808-60-7 – Quartz (SiO<sub>2</sub>)  
**State Right to Know Listings:** Substance is not listed

**Canadian Substance Listings:**

<b>Canadian Domestic Substances List (DSL):</b>	Substance is listed
<b>Canadian Ingredient Disclosure list (limit (0.1%))</b>	Substance is not listed
<b>Canadian Ingredient Disclosure list (limit 1%)</b>	Substance is not listed
<b>Other regulations, limitations and prohibitive regulations</b>	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
<b>Chemical Safety assessment:</b>	A Chemical Safety Assessment has not been carried out

**16 OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Abbreviation and Acronyms:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CARC. 1A	Carcinogenicity, Hazard Category 1A
DOT	Department of Transportation
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
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
WHMIS	Workplace hazardous Materials Information System (Canada)

**NOTICE:**

This material safety data sheet complements the technical data sheets but does not replace them. The information it contains is based on our present knowledge of the product on the date indicated. It is given in good faith. Users should be warned about the risks associated with using the product for a different purpose than that for which it was developed, and particularly for uses for which we are not qualified to give advice.

These regulatory prescriptions are provided with a view to helping users meet their obligations when using this product. This list should not be considered exhaustive and does not exempt users from ensuring that they are not required to comply with any further prescriptions other than those mentioned above concerning product possession and handling for which they are solely responsible.