

1. IDENTIFICATION

Product Identifier	Green Silicon Carbide Green SiC, Green SiC Macrogrits and Microgrits	
Article Number:	No other identifiers	
CAS Number:	409-21-2	
Recommended Use:	Abrasives, Refractories, Ceramics	
Restrictions on Use:	Contact manufacturer	
Manufacturer/Supplier:	GNP Graystar 37 John Glenn Dr. Amherst, NY 14228	GNP Graystar 9 Simmonsville Road Bluffton, SC 29910
Emergency telephone number:	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 (SiO₂)

Hazard Statements: H350 may cause cancer via inhalation

Precautionary Statement:

P280 Wear protective gloves/protective clothing/eye protection/face protection

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

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 (SiO₂)

Other Hazards:

Results of PBT and vPvB Assessment

PBT: Not applicable
vPvB: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Substances

Dangerous Components:

Component	CAS Registry Number	EC No.	Weight %	Hazard Statement & Pictogram
Quartz (SiO ₂)	14808-60-7	238-878-4	0-1.0%	 Carc. 1A,H350

4. FIRST-AID MEASURES

General Information:	No special measures required
After inhalation:	Supply fresh air, consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing
After skin contact:	Brush off loose particles from skin Clean with water and soap If skin irritation continues, consult doctor
After eye contact:	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.
No special measures required

Information about protection against explosions and fires:

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/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.,**resp.

EL (Canada)

Long-term value: 10* 3** mg/m³
*inhalable,**respirable

EV (Canada)

Long-term value: 10* 3** mg/m³, 0.1f/cc*** ppm
nonfibrous: *inh.,**resp.; ***fibrous, resp.

LMPE (Mexico)

Long-term value: 10* 3** mg/m³
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/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:

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.
Engineering controls:	No further relevant information available
Eye/Face Protection:	Safety glasses
Skin Protections:	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.
Respiratory Protection:	Suitable respiratory protective device recommended Use suitable respiratory protective device in case of insufficient ventilation For spills, respiratory protection may be advisable
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
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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Granulate
Color	Grey Black
Odor	Odorless
Odor threshold	Not determined
pH	neutral
Melting/Freezing point	2500 °C (4532 °F)
Initial Boiling point/Boiling Range	Undetermined
Flash point	Not applicable
Flammability	Product is not flammable
Upper/Lower flammability explosive limit	Not determined
Vapor Pressure	Not applicable
Relative density	Not determined
Solubility	Insoluble

Partition coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not applicable
Explosive Properties	Not determined
10. STABILITY AND REACTIVITY	
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
Incompatible Materials:	No further relevant information available
Hazardous Decomposition:	Carbon monoxide and carbon dioxide
Conditions to Avoid:	No further relevant information available
11. TOXICOLOGICAL INFORMATION	
Information on Toxicological Effects	
LD/LC50 values that are relevant for classification:	None
On the skin:	Slight irritant effect on skin and mucous membranes
On the eye:	Slight irritant effect on eyes
Sensitization:	No sensitizing effects known
NTP (National Toxicology Program)	14808-60-7 Quartz (SiO ₂)
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 corrosivity):	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	
Aquatic Toxicity:	Generally, not hazardous for water
Persistence and degradability:	No further relevant information available
Other Adverse Effects:	No further relevant information available
Bio accumulative Potential:	Does not accumulate in organisms
Mobility in soil:	No further relevant information available

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

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Smaller quantities can be disposed of with household waste. Can be reused after reprocessing. 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 (SiO₂)



WARNING: This product can expose you to chemicals including Quartz (SiO₂), which is known to the State of California to cause cancer. For more information go to 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 ₂) , 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 (SiO ₂)
State Right to Know Listings:	Substance is not listed
Canadian Substance Listings:	
Canadian Domestic Substances List (DSL):	Substance is not listed
Canadian Ingredient Disclosure list (limit (0.1%))	Substance is not listed
Canadian Ingredient Disclosure list (limit 1%)	14808-60-7 – Quartz (SiO ₂)
Other regulations, limitations and prohibitive regulations	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 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.