SILICON CARBIDE

SAFETY DATA SHEET

DATE OF LAST REVISION: 01/06/15

Section 1: Identification

Product Name: Silicon Carbide CAS Number: 409-21-2 / EC Number: 206-991-8 Company: Angstrom Sciences, Inc. 40 South Linden Street Duquesne, PA 15110 For more information call: 412-469-8466 (Monday - Friday 9:00 AM -5:00 PM EST)

Section 2: HAZARD IDENTIFICATION

Signal Word: Warning

Hazard Statements:	H315: Causes skin irritation			
	H319: Causes serious eye irritation			
Precautionary Statements:	P261: Avoid breathing dust/fume/vapor P305 + P351: If in eyes: Rinse cautiously with water for several minutes.			
HMIS Health Ratings (0-4):				
Health:	1			
Flammability:	0			
Physical:	0			
Section 3: Composition/Information on Ingredients				
Chemical characterizat	ion: Ceramic			
Additional Names:	Carborundrum, Moissanite			
CAS# Description: 409-21-2				
Percentage: 100 wt%				
EC number: 206-991-8				

SILICON CARBIDE SAFETY DATA SHEET

Section 4: FIRST AID MEASURES

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None

Important Symptoms: None

Eye Contact: Flush eyes with water, blinking often for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing.

Skin Contact: Wash affected area with mild soap and water. Remove any contaminated clothing. **Inhalation:**Remove to fresh air. If required, give artificial respiration. Seek medical advice. **Ingestion**: Seek medical attention

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing Media: No special restrictions - Use suitable extinguishing agent for surrounding material and type of fire.

Flammability: Non-flammable

Special Fire Fighting Procedure: Use full-face, self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

Section 7: HANDLING AND STORAGE

Handling Precautions for safe handling: Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in Section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits:	5 mg/m ³ as SiC, non-fibrous respirable fraction	
	15 mg/m³ as SiC, non-fibrous total dust	
Threshold Limit Value:	10 mg/m³ as SiC, non-fibrous	
Special Equipment:	None	
Respiratory Protection:	Dust respirator.	

SILICON CARBIDE SAFETY DATA SHEET

Protective Gloves:	Rubber Gloves	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes ar	id long sleeves/pants.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Color:	Dark Grey or green
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	2730°C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.22 g/cc
Molecular Weight:	40.097 g/mol

Section 10: STABILITY AND REACTIVITY

Reactivity:	None
Chemical Stability:	Stable under recommended storage conditions
Incompatible Conditions:	None
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Metal oxide fume.

N/A

N/A

Section 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:	
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Eyes: May cause irritation

Skin: May cause irritation

Ingestion: Low absorption

Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen:

N/A An examination of 53 silicon carbide crushers showed 15 cases of pneumoconiosis in workers employed on the crushing, sieving and packing of silicon carbide have been reported.

Section 12: ECOLOGICAL INFORMATION

Ecological data is not available.

SILICON CARBIDE

SAFETY DATA SHEET

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, national, and international regulations

Section 14: TRANSPORT INFORMATION

Hazardous:Not hazardous for transportationHazard Class:N/APacking Group:N/AUN Number:N/AProper Shipping Name:N/A

Section 15: REGULATORY INFORMATION

Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes

Section 16: OTHER INFORMATION

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.