

# MATERIAL SAFETY DATA SHEET

## BLACK SILICON CARBIDE

### Section 1: Name and Product

Supplier: American Abrasive Products, Inc.			
Address: 17635-D East Rowland Street, City of Industry, California 91748			
Trade Name, Common Name or Specification: N/M			
Chemical Family or Product Type: <b>Black Silicon Carbide</b>			
Flammability Rating <input checked="" type="checkbox"/>	Health Rating <input checked="" type="checkbox"/>	Reactivity Rating <input checked="" type="checkbox"/>	Hazard Rating <input type="checkbox"/>
Please rate consistent with NFPA code			
Emergency Telephone No: (626) 912-8866			
Contact: American Abrasive Product, Inc.			
Last Update: October, 2004			

### Section 2: Composition

Chemical Name	Typical %	Common Name	CAS#	OSHA Permissible Exposure Limit (per cubic meter)	ACGIH TLV (per cubic meter)	Listed as Carcinogen (Y/N)
SiC	97.99	Silicon Carbide	409-21-2	15 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup>	N
SiO <sub>2</sub>	0.5	Free Silicon Dioxide	7631-86-9	See Below	See Below	N
Si	0.6	Free Silicon	7440-21-3	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	N
C	0.3	Free Carbon	133-86-4	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	N
Impurities total less than 1% each		SiO <sub>2</sub> + Si + C + Fe + Al				

PEL & TLV for SiO<sub>2</sub> = ( 10mg/m<sup>3</sup> ) / (% Respirable SiO<sub>2</sub> +2).

\* Materials are regulated by OSHA 29 CFR 1910, 1200 Hazard Communication Standard.

\*\* Respirable fraction 5 mg / m<sup>3</sup>

\*\*\* Listed as Carcinogen by:

1. American Conference of Government Industrial Hygenists (ACGIH)
2. International Agency for Fresearch on Cancer Monographs (IARC)
3. Nation Toxicology Program (NTP)
4. California Propostion 65 List (1988)

### Section 3: Physical and Chemical Data

Boiling Point (°C) : NA	Melting Point (°C) : dissociates at 2600	Specific Gravity (H <sub>2</sub> O) = 1): 3.20
Vapor Pressure (mmHg): Essentially 0	Percent Volatile by Volume (%): NA	Vapor Density (Air = 1): NA
Evaporation Rate (Butyl Acate=1): NA	Solubility in Water: Insoluble	Solubility in Alcohol: Insoluble
Solvent Content & Organic Solvents: 0.0%	Appearance and Odor:	
Solids Content: 100%	Granular Black or Green, Odorless	

### Section 4: Fire and Explosion Data

Flash Point: Nonflammable (Method Used) : NA	Flammable Limits		
Extinguishing Media: NA	UEL: NA	LEL: NA	
Special fire fighting Procedures: NA			
Unusual Fire and Explosion Hazard Potention: NA			

NA = Non Applicable

NF = Not Found

## Section 5: Health, First Aid and Medical Data

Primary Routes of Entry	Acute and Chronic health Effects and Effects Overexposure (Threshold Limit Value & Carcinogenicity See Section 2)	First Aid and Medical Information
Inhalation (Dust)	Exposure to excessive airborne concentrations may result in acute respiratory disorders. Continued excessive exposure may cause pulmonary fibrosis (silicosis) which may be aggravated by smoking. Individuals with impaired pulmonary function should not be subject to excessive airborne concentrations. Symptoms of excessive exposure might include deposits of material in eyes, ears, nasal passages and irritation of the mucuous membranes, eyes and respiratory tract. Irritation of the skin may also occur due to mechanical / chemical action.	Remove to fresh air apply.  Check for clear airway, breathing, and presence of pulse. Provide cardiopulmonary resusitation for persons without pulse or respiration.  Obtain first aid or medical assistance if needed.
Ingestion	No know adverse effects, but ingestion not recommended.	Obtain first aid or medical assistance if needed.
Skin	Not absorbed through skin. May cause minor irritation.	Wash with large amounts of water, obtain first aid or medical assistance, if needed.
Eye (Dust)	May cause slight irritation in eyes	
Other Potential Health Risks	None known	

## Section 6: Corrosively and Reactivity Data

Stability: Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/> Polymerization May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>
Incompatibility (Materials to Avoid): NA
Dangerous Products of Decompression: No dangerous decompression products known.
Dangerous Reactions: No dangerous reactions known.
Thermal Decomposition / Conditions to Avoid: No decompression if used according to specification.
Additional Information: Non-corrosive.

## Section 7: Storage, Handeling and Use Procedures

<b>Storage:</b>	Keep material dry. Normal storage, no special requirements.
<b>Handeling:</b>	Handle with adequate ventilation for nuisance dust, See OSHA 29 CFR 1910.94 (Ventilation) and CFR 1910.1000, (Air Contaminants). Avoid breathing dust. Wash hands thoroughly after handeling.
<b>Steps to be taken in Case of Leaks or Spills:</b>	Normal precautions for inert or nuisance dusts and particulate. Vacuum-clean to pick up dust, avoid dust inhalation and promulgation. Do not use compressed air or dry sweeping to remove dust from work area. If sweeping is required, only wet-clean-up methods should be used.
<b>Waste Disposal Method:</b>	Before use, Black Silicon Carbide is not classified as a special waste. During use however, the product can become contaminated with paints or other materials that would require classification of the waste as a special waste. It is the responsibility of the user to under take any nessessary evaluation, classification and disposal of the material after use. Recommendation: Collect in containers, bags or covered dumpster boxes. Disposal must be in accordance with Federal, State and Local Laws and regulations (40 CFR 261 or State equivalent in the U.S.).
<b>Other Precautions:</b>	NA

## Section 8: Personal Protection Information

Respiratory Protection (Specify Type):	
As needed, approved dust respirator. See OSHA 29 CFR 1910.134	
Ventilation	Engineering Controls: Use sufficient ventilation to keep employee exposure below recommended limits. If using this product as an abrasive blast agent in confined areas, airborne dust levels should be controlled by physical enclosure of the abrasive blasting operation. The should be exhaust ventilated in accordance with 29 CFR 1910.94 Ventilation (a) Abrasive blasting.
	Mechanical (General): Recommended
	Other: NA
Hand Protection:	Impervious gloves.
Eye/Face Protection:	Recommended, see OSHA 29 CFR 1910.122.
Other Equipment:	NA
Measures to be taken during repair and maintenance of equipment that has been in contact with this material. See Section 7 and 8.	

## Section 9: Special Precautions / Regulatory Information

Emergency Planning and Community Right-to Know Act (**SARA, TITLE III**)

**Section 302 ( Extremely Hazardous Substance):** None

**Section 311/312 Hazardous Categories:** Immediate (acute) health hazard (May cause mechanical irritation to eyes and mucuous membranes if exposed to large amounts of dust.)

**Section 313 Toxic Chemical:** None

**TSCA:** All components of this productt are listed on the TSCA (Toxic Substances Control Act) inventory.

**California Proposition 65:** Quartz (Silica, Chrystalline) is known in the State of California to cause cancer.

**Other information:**

- In reference to Title IV of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.
- This material is not subject to classification according to the calculation method of the general EU Classification Guidelines for Preparations as issued in the latest version.
- This material generally not hazardous for water

**Note:**

1. The information and recommendation set forth are taken from sources believed to be accurate. Any modifications of product use or method of applicatoin is the responsibility of the user. However, American Abrasive Products, Inc. makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to anyt thereof. Customers are encourages to conduct their own test.
2. This MSDS contains important environmental safety and health information for your employees who will be using this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

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NF = Not Found