

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

## IDENTITY (As Used on Label and List)

**Black Diamond**  
**40-80 and 30-60**

*Note: Blank spaces are not permitted. If any item is not applicable, or no  
information is available, the spaces must be marked to indicate that*

## SECTION I

Manufacturer's Name  
**Black Diamond Granules, Inc./Abrasive  
Technologies, Inc.**

Emergency Telephone Number  
**651-436-6071**

Address  
**499 Cottage Grove Drive  
Woodbury, MN 55129**

Telephone Number for Information  
**651-436-6071**

Date Prepared: 14 January 2000.  
Updated 6 November 2007

Signature of Preparer (optional) *Janet L. Keyes, CIH*

## SECTION II – Hazardous Ingredients/Identity Information

Hazardous components:

Black Diamond abrasives are stable, amorphous glass-like compounds.

Crystalline silica (quartz) content varies from non-detectable to a maximum detected of 2.1%

| Chemical identity              | CAS #      | Percent | OSHA PEL   | ACGIH TLV  |
|--------------------------------|------------|---------|--|--|
| Coal slag                      | 68476-96-0 | 99+ %   | 15 mg/m <sup>3</sup> (total)<br>5 mg/m <sup>3</sup> (respirable) | 10 mg/m <sup>3</sup> (inhalable)<br>3 mg/m <sup>3</sup> (respirable) |
| Crystalline silica<br>(quartz) | 14808-60-7 | 0-2%    | 0.1mg/m <sup>3</sup> (respirable)                                | 0.05 mg/m <sup>3</sup> (respirable)                                  |

Silica concentrations for 40-80 range from <0.4% to 1.8% in ten samples (average = 1.0%). One sample of 30-60, taken in 1999, had a silica concentration of 2.1%; all others have been <1%. Samples in 2006 and 2007 were below the detection level of 0.3%.

## SECTION III – Physical Characteristics

|                        |            |   |         |
|------------------------|------------|---|---------|
| Boiling point          | >>2500 °F  | Specific gravity (H <sub>2</sub> O = 1) | 2.65    |
| Vapor Pressure (mmHg)  | N/A        | Melting Point                           | 2500 °F |
| Vapor Density (AIR =1) | N/A        | Evaporation Rate (Butyl acetate=1)      | N/A     |
| Solubility in water    | Negligible | Hardness                                | #7      |

Appearance and odor: **Black granular solid, no apparent odor**

## SECTION IV – Fire and Explosion Hazard Data

Flash point (Method used) N/A Flammable limits: N/A

Extinguishing Media: none required

Special fire fighting procedures: None

Unusual Fire and Explosion Hazards: None

## SECTION V – Reactivity Data

Stability Unstable Conditions to avoid

Stable **X** None

Incompatibility (Materials to Avoid): none known

Hazardous Decomposition or Byproducts: N/A

Hazardous Polymerization May Occur Conditions to Avoid

Will Not Occur **X** None

| <b>Section VI – Health Hazard Data</b>  |   |  |                               |
|---|---|--|-------------------------------|
| Route(s) of Entry   | Inhalation?<br>Yes  | Skin?<br>Eyes, Yes                                   | Ingestion?<br>Not significant |
| Health Hazards (Acute and Chronic): May cause mechanical irritation to eyes and skin. Low toxicity by ingestion. Primarily hazardous by inhalation. Dust can cause mucous membrane irritation. Repeated or extremely high exposures to dust could cause pneumoconiosis.   |   |  |                               |
| Carcinogenicity   | NTP?<br>No (yes for quartz)   | IARC?<br>No (yes for quartz )                        | OSHA Regulated<br>No          |
| Signs and Symptoms of Overexposure: Shortness of breath, coughing, impaired lung function   |   |  |                               |
| Medical Conditions Generally Aggravated by Exposure:<br>Respiratory illnesses   |   |  |                               |
| Emergency and First Aid Procedures:<br>Eyes: Flush with water for 15 minutes. Ingestion: Drink large amounts of water. Skin: wash with mild soap and water Inhalation: Move the person to fresh air; support breathing  |   |  |                               |
| <b>SECTION VII – Precautions for Safe Handling and Use</b>  |   |  |                               |
| Steps to Be Taken in Case Material is Released or Spilled<br>Follow established procedures for handling unregulated dusts and sands. Scoop or shovel into container, controlling dust. The material can be wetted with water to control dust. If material has been used for abrasive blasting, the waste material may be contaminated from the blasting.  |   |  |                               |
| Waste Disposal Method:<br>May be disposed of in an approved landfill in accordance with all EPA, state, and county disposal regulations. Disposal requirements may change once material has been used for abrasive blasting   |   |  |                               |
| Precautions to be Taken in Handling and Storing<br>Minimize inhalation and direct skin contact. Minimize dust generation. Respirator required in enclosed or poorly ventilated spaces and all other work involving high exposure.   |   |  |                               |
| Other Precautions:<br>Carefully follow all EPA, state, and county regulations   |   |  |                               |
| <b>SECTION VIII – Control Measures</b>  |   |  |                               |
| Respiratory Protection ( <i>Specify Type</i> )<br>NIOSH approved Type CE airline respirator for abrasive blasting. NIOSH approved disposable dust mask (N100 recommended) for comfort, protection against dust when pouring material  |   |  |                               |
| Ventilation   | Local Exhaust<br>To maintain exposure below TLV/PEL                 | Special<br>None                                      |                               |
|   | Mechanical ( <i>General</i> )<br>To maintain exposure below TLV/PEL | Other<br>None  |                               |
| Protective Gloves:<br>Use gloves to prevent skin abrasion   |   | Eye Protection<br>Safety glasses or chemical goggles |                               |
| Other Protective Clothing or Equipment<br>Safety glasses and normal work clothing for limited exposure. Type CE abrasive blasting respirator (including head and face protection) and sturdy coveralls to protect against high dust levels and abrasive effects when doing abrasive blasting  |   |  |                               |
| Work/Hygienic Practices<br>Normal practices.  |   |  |                               |
| <i>The data in this material safety data sheet relate only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information is believed to be correct as of the date issued. Since the use of this information and the conditions of use of the product are not within the control of Black Diamond/Abrasive Technologies, it is the user's obligation to determine procedures for safe use and disposal of the product and to follow the appropriate safe procedures.</i> |   |  |                               |