

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 Settlers Ridge Parkway Woodbury, MN 55129	Telephone Number for Information 651-436-6071
Date Prepared: 3March 2008. Updated 14May10	
Signature of Preparer (optional) Janet L. Keyes, CIH	

SECTION II – Hazardous Ingredients/Identity Information

Overview:

Black Diamond abrasives are stable, non-flammable amorphous glass-like compounds. No hazard, other than mechanical abrasion, is expected from short term exposure. Repeatedly breathing high levels of dust from abrasive blasting can cause lung damage.

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

*Silica concentrations for 30-60 grade average <0.5% and in 2006, 2007, and 2008 were below the detection level of 0.3%. Silica concentrations for 40-80 range from <0.3% to 1.6% in samples taken over the last seven years (average = 0.9%).

SECTION III – Physical Characteristics

Boiling point	>>2500 °F	Specific gravity (H ₂ 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
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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

Section VI – Health Hazard Data

Route(s) of Entry	Inhalation? Yes	Skin? Eyes, Yes	Ingestion? Not significant
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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? No (yes for quartz)	IARC? No (yes for quartz)	OSHA Regulated No
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Signs and Symptoms of Overexposure: Shortness of breath, coughing, impaired lung function

Medical Conditions Generally Aggravated by Exposure:

Respiratory illnesses

Emergency and First Aid Procedures:

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

SECTION VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

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:

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

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:

Carefully follow all EPA, state, and county regulations

SECTION VIII – Control Measures

Respiratory Protection (*Specify Type*)

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 To maintain exposure below TLV/PEL	Special None
	Mechanical (<i>General</i>) To maintain exposure below TLV/PEL	Other None

Protective Gloves:

Use gloves to prevent skin abrasion

Eye Protection

Safety glasses or chemical goggles

Other Protective Clothing or Equipment

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

Normal practices.

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.