MATERIAL SAFETY DATA SHEET

This MSDS complies with 29 CFR 1910.1200

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT PAN based carbon fabric styles
FINISH 470 (cleaned)
DESCRIPTION Woven textile fabric

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL OR COMMON NAME	MAX. % BY WEIGHT	UN#	CAS#	TLV (SOURCE)	PEL (SOURCE)
Carbon fiber (textile grade)	100	not assigned	7440-44-0	not listed	not listed
Respirable fibrous carbon dust	not known*	not assigned	not assigned	5mg/m^3 (ACGIH) (inhalable)	5 mg/m^3 (OSHA) (respirable)

*AMOUNT WILL BE DEPENDENT UPON METHOD OF HANDLING

SECTION 3 - OTHER INGREDIENTS

ITEMS LISTED IN THIS SECTION ARE EITHER CHEMICALLY OR PHYSICALLY BONDED TO THE FIBROUS GLASS TEXTILE AND ARE DEEMED NON-HAZARDOUS IN THE STATE SUPPLIED.

CHEMICAL AND COMMON NAME	MAX. % BY WEIGHT
Carbonous residual	0.5

SECTION 4 - PHYSICAL DATA

Specific Gravity: Approx. 2.0
APPEARANCE/PHYSICAL STATE: Black; solid

ODOR: No distinctive odor

SOLUBILITY IN WATER: Negligible

3802 Robert Porcher Way, Greensboro, NC 27410
Ph: 336-545-0011 800-476-4845
Fax: 336-545-0233
Email: info@bgf.com Website: http://www.bgf.com/

SECTION 5 - FIRE HAZARD DATA

FLASH POINT: Not applicable **FLAMMABLE LIMITS:** Not applicable
EXTINGUISHING MEDIA: Water, dry powder, or foam (needed for packaging only).
SPECIAL FIRE FIGHTING PROCEDURE: In any sustained fire, wear self-contained breathing apparatus.
UNUSUAL FIRE HAZARDS: In a sustained fire, combustible decomposition products may be released. These products include carbon dioxide, carbon monoxide, and airborne fibers. **

SECTION 6 - REACTIVITY DATA

STABILITY: Stable
CONDITIONS/MATERIALS TO AVOID: Note: Carbon fibers, dust, and fibrous particles are electrically conductive and can cause shorting in electrical equipment. Explosive shorting of high voltage systems is possible.
HAZARDOUS DECOMPOSITION PRODUCTS: None generated under normal storage or handling conditions.

SECTION 7 - HEALTH HAZARD DATA

POTENTIAL ROUTES OF ENTRY: Inhalation, skin contact
EFFECTS OF OVEREXPOSURE: Direct skin contact with fibrous glass or its dust may cause mechanical irritation and transitory dermatitis. Breathing of fibers or dust may cause mechanical irritation of the mouth, nose, and throat.

EMERGENCY AND FIRST AID PROCEDURE:
Inhalation: Move to fresh air area.
Ingestion: Not likely to occur through normal use, should ingestion occur seek medical attention.
Eyes: Flush with flowing water for 15 minutes - seek medical attention
Skin: Flush with ample cool water followed by washing with mild soap to remove accumulated fibers.
CARCINOGEN: Not classified as regulated under ACGIH, IARC, NTP, or OSHA. Industry studies have shown textile grade fibrous glass to be a non-carcinogen.

SECTION 8 - SPECIAL PROTECTION REQUIRED

Exposure to fibrous glass may cause mechanical irritation to the skin, eyes, nose and throat. Typically such irritation occurs to newly exposed individuals, and usually diminishes after several days of exposure.
RESPIRATORY: If airborne dust or fibers exceed the TLV or if upper respiratory irritation occurs, use a respirator designed for nuisance type dusts.
VENTILATION: Normal area ventilation is sufficient in most cases to keep dust and fiber levels below the TLV or PEL.
SKIN: Barrier creams, gloves, and long sleeve loose fitting clothing may be required for certain workers who have sensitive skin or contact dermatitis. Work clothing should be laundered separately from other clothing before reuse.
EYE: None required for normal use, but suggested as a good safety practice whenever use of the product releases fibrous carbon.
OTHER: Observe good personal hygiene.

SECTION 9 - CONTAINMENT AND DISPOSAL

CONTAINMENT AND CLEAN UP: Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant.
DISPOSAL: Do not incinerate. Waste material should be bagged or containerized, sealed and dispose according to local, state, and federal laws. This material is not regulated under RCRA hazardous waste regulations.

SECTION 10 - SPECIAL PRECAUTIONS

SHIPPING: Not regulated by DOT; not classified by TDG
STORAGE: Store in dry area.
HANDLING: Carbon fibers, dust and fibrous particles are electrically conductive and can cause shorting in electrical equipment. Explosive shorting of high voltage systems is possible.

SECTION 11 - REGULATORY INFORMATION

EPA, RCRA 40 CFR, Part 261, 1990: Non-hazardous
CERCLA: Not listed
SARA TITLE III: Exempt by definition
PA RIGHT-TO-KNOW: Less than reportable quantity
TSCA INVENTORY: Exempt per section 8(a), 710.2(f), and 704.5(a)

CA PROPOSITION 65: Insignificant trace quantity
MA RIGHT-TO-KNOW: Less than reportable quantity
NJ RIGHT-TO-KNOW: Less than reportable quantity

Revision Date: February 20, 2008
Technical/Emergency Information: (336) 545-0011

Prepared By: Jacen Busick
Title: Chemist

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Ph: 336-545-0011 800-476-4845
Fax: 336-545-0233
Email: info@bgf.com Website: http://www.bgf.com/