

SDS Carbon/Carbon Composite

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Section 1 MATERIAL IDENTITY

PRODUCT NAME: CARBON/CARBON COMPOSITE

MANUFACTURER INFORMATION:

BAY COMPOSITES, INC.
1801 JARMAN STREET
ESSEXVILLE, MI 48732
UNITED STATES

NON EMERGENCY PHONE NUMBER: 989-891-9155 EXT 10

EMERGENCY PHONE NUMBER: 989-239-5831

DATE SDS PREPARED: JUNE 15, 2015

Section 2. HAZARDS IDENTIFICATION

Primary Routes of Exposure: DUST AND FIBERS

Inhalation: yes

Skin: YES

Ingestion: UNLIKELY

Eyes: YES

Effects of Overexposure

Eyes: At high dust levels, mechanical irritation.

Breathing: Fibers from insulation are a possible slight lung irritant under constant exposure.
Prolonged and repeated overexposure may lead to pneumoconiosis.

Skin: Itching of skin may be possible.

Carcinogenicity NTP – No IARC Monographs – No OSHA Regulated - No

Signs and Symptoms of Exposure

Acute: Severe Coughing, Black Sputum

Medical Conditions Generally Aggravated by Exposure

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Individuals with pre-existing chronic respiratory impairments may be an increased risk of pneumoconiosis.

Emergency and First Aid Procedures

Eyes: Flush with water if irritation occurs.

Skin: Wash with soap and water.

Inhalation: Remove to fresh air.

Ingestion: None necessary.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	%	CAS #	OSHA PEL	ACGIH TLV
Carbon/Synthetic Graphite	99.9+	7440-44-0 7782-42-5	15 mg/m ³	10 mg/m ³

Section 4. FIRST AID MEASURES

EYE:	IMMEDIATELY IRRIGATE WITH EYEWASH SOLUTION OR CLEAN WATER, HOLDING THE EYELIDS APART FOR AT LEAST 15 MINUTES. OBTAIN IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT:	WASH SKIN WITH SOAP AND WATER. IF SYMPTOMS DEVELOP, OBTAIN MEDICAL ATTENTION.
INHALATION:	REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
INGESTION:	DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP AT REST. ASPIRATION INTO THE LUNGS MAY CAUSE CHEMICAL PNEUMONITIS, WHICH CAN BE FATAL. IF INDIVIDUAL IS CONSCIOUS, GIVE WATER TO DILUTE STOMACH CONTENTS. GET PROMPT MEDICAL ATTENTION.

Section 5. FIREFIGHTING MEASURES

Flash Point N/A **Flammable Limits** LEL – N/A; UEL – N/A

Extinguishing Media Water, CO₂, Sand **Extinguishing Media to Avoid** N/A

Special Fire Fighting Procedures N/A, Difficult to Ignite

Unusual Fire and Explosion Data

Graphite and carbon dusts are normally not explosive, but these may weakly contribute if the event is initiated by another explosive dust or gas. Graphite and carbon dusts are electrically conductive; dust accumulations may cause electrical short circuits or other electrical malfunctions.

Section 6. ACCIDENTAL RELEASE MEASURES

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Steps To Be Taken In Case Material Is Released Or Spilled

Use normal housekeeping practice. Vacuum or sweep up spills taking care not to generate airborne fibers which can cause electrical malfunctions.

Section 7. HANDLING AND STORAGE

Waste Disposal Method

Material may be bagged, and then disposed of in an approved landfill. Incinerating may cause airborne particles. Disposal must be in compliance with federal, state, and local laws and regulations.

Precautions to be Taken in Handling and Storing

Carbon and graphite fibers are electrically conductive and may cause short circuits that may result in damage to or malfunction of electrical equipment. All forms of electrical equipment, enclosures, and circuits in or near areas where fibers are used should be properly protected against infiltration of or contact with airborne particles or fibers.

Section 8. Exposure Controls/Personal Protection

- Respiratory Protection: Use approved respirator if exposure exceeds PEL limits.
- Ventilation: Local ventilation or dust collection recommended if dusts exceeds PEL limits. General mechanical as necessary to minimize fibers.
- Eye Protection: Safety glasses with side shields. Goggles may be required on excessive exposure.
- Protective Gloves: Cotton or latex gloves may be required on excessive exposure. Recommended due to the potential of fiber splinters.
- Other Protective Clothing or Equipment: Exposed skin may need covering on excessive exposure. Eye wash station. Good ventilation.
- Work/Hygienic Practices: Material should be handled so as to prevent eye contact and excessive or repeated skin contact. Inhalation of fibers should be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point N/A	Melting Point N/A
Evaporation Rate (Butyl Acetate = 1) N/A	Solubility in Water Negligible
<i>Vapor Pressure (mm Hg)</i> N/A	<i>Vapor Density (Air = 1)</i> N/A
Specific Gravity (H₂O = 1) 0.13 – 0.25	Volatiles by Weight Negligible @ RT
Carbon Fiber Composite 1.3 – 1.5 g/cc	

Appearance and Odor

Gray solid laminate, Gray-black fibrous felt; negligible odor

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10. STABILITY AND REACTIVITY

Hazardous Polymerization Will Not Occur

Conditions to Avoid N/A

Stability Stable

Incompatibility None

Hazardous Decomposition or Byproducts None