

**GATEWAY COMPOSITES | SAFETY DATA SHEET
CARBON FIBER 2017****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Gateway Composites Carbon Fiber
Other Names: Unidirectional fabric, woven fabric, bi-directional fabric, milled, chopped fiber Product Type: 3k, 6k, 12k, 24k, 48k, 50k
Address: 120 East Highway A, Wentzville, MO 63385
Telephone Number: 636-887-0637
Emergency Telephone Number: 636-887-0637 Chemtel 800-255-3924

2. HAZARDS IDENTIFICATION

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS contains valuable information critical to the safe handling and proper use of the product.

- 2.1 Primary Route of Exposure
 - 2.1.1 Skin Contact Fiber dust may cause irritation, itchiness or sometimes allergic dermatitis.
 - 2.1.2 Eye Contact Fiber or Fiber Dust may cause irritation or injury from scratching.
 - 2.1.3 Inhalation Dust may cause irritation. 2.1.4 Ingestion Unknown
- 2.2 Chronic Toxicity/Carcinogenicity Not Listed
- 2.3 Medical Conditions Aggravated by Exposure Not Applicable
- 2.4 Signal word: No signal word.
- 2.5 Precautionary Statement: Possible irritant to the skin, eyes, and respiratory tract when processed due to nuisance dust generation. Fiber is electrically conductive.

See Section 10 for additional information. In the supplied form the product is not explosive however, the processing and buildup of fine dust can lead to a risk of dust explosion. Warning: processing may create combustible dust concentrations in the air. No specific hazards known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component Concentration CAS Number Carbon Fiber (Polyacrylonitrile based) 95 ~ 100 %
7440-44-0 Epoxy (Sizing agent) 0.5 ~ 2.0 % Trade Secret

4. FIRST AID MEASURES

- 4.1 Skin Wash with water and if irritation persists or allergic reaction occurs, consult a medical physician.



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- 4.2 Eye Wash with plenty of clean water and, if irritation persists, consult a medical physician.
- 4.3 Inhalation Evacuate from the dusty contaminated area and walk outside to get fresh air.
- 4.4 Ingestion Consult a medical physician.
- 4.5 Notes to Physician Fiber is inert, but it is so sharp and strong that it may cause physical injury.

5. FIRE-FIGHTING MEASURES

- 5.1 Flammable Properties
 - 5.1.1 Flash Point Not Applicable
 - 5.1.2 Flammable Limits
 - LFL (Lower Flush Limit) Not Applicable
 - UFL (Upper Flush Limit) Not Applicable
- 5.2 Firefighting Instruction Not Applicable

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Aquatic Toxicity Unknown
- 6.2 Steps to be Taken if Material is Released or Spilled Vacuum up and place in a waste disposal container to an approved landfill.
- 6.3 Neutralizing Chemicals Not Applicable

7. HANDLING AND STORAGE

- 7.1 Precautions to be taken in Handling & Storing
Airborne fiber dust and broken filaments should be controlled as to minimize (1) Skin irritation, (2) Electrical malfunction to machinery, electronics, etc. due to fiber electrical conductivity. Maintain good housekeeping to control dust accumulations.
- 7.2 Other Precautions
Isolate all electrical equipment in surrounding areas where fiber is handled or used. Any contact between airborne particles and filaments may cause electrical shorts on any electrical equipment.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- 8.1 Ventilation Requirements
Local exhaust for fiber dust only
- 8.2 Personal Protective Equipment
Eye/Face Protection Safety Goggles and Dust Mask
Skin Protection Protective clothing (Rubber Gloves) which can cover full body
Respiratory Protection Dust Masks



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9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Filament
Odor	Odorless
Density (g/cm ³)	1.8
Color	Black
Boiling Point	N/A
Vapor Pressure	N/A
Melting Point	N/A
Solubility (%)	
Vapor Density	N/A in water Insoluble
Volatility	N/A in others N/A

10. PHYSICAL HAZARDS (STABILITY & REACTIVITY)

Chemical Stability	Stable
Conditions to Avoid	Strong oxidizing agents. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. The fine dust from a carbon fiber compound or composite that is cut or formed can create additional dust explosion risk depending on the resin or compounding agent. A process hazard analysis is recommended to determine what, if any, risks are present.
Incompatibilities	None
Hazardous Polymerization	Will not occur
Hazardous Decomposition Product	None

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: Not determined
 Acute dermal toxicity: Irritant
 Acute inhalation toxicity: Irritant
 Irritation/Corrosion:
 Skin: Mechanical skin irritation Eyes: Not determined
 Sensitization: Not determined
 Sub-acute toxicity: Not determined
 Chronic toxicity: Not determined
 Mutagenicity: Not determined
 Carcinogenicity: Not determined
 Reproductive toxicity: Not determined
 Experiences made in practice: Fiber abrasion can cause mechanical skin irritation.



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12. ECOLOGICAL INFORMATION

Biodegradability	Not biodegradable
Bioaccumulation	Unknown
Aqua Toxicity	Unknown

13. DISPOSAL CONSIDERATION

Waste Disposal Method Dispose fiber in accordance with applicable governmental non-hazardous solid waste regulations.

14. TRANSPORT INFORMATION

Classification according to DOT: Non Hazardous
 Classification according to DOT: Not classified as "Dangerous Goods"
 Classification according to DOT: Not classified as "Dangerous Goods"

15. REGULATORY INFORMATION

This product is not classified as a toxic chemical or hazardous material. No special warning label is required.

TSCA (US) NO CARBON FIBER 7440-44-0 EINECS NO N/A

WHMIS (Canada) N/A

CAS 7440-44-0

OSHA N/A

SARA TITLE III Sec.313 Toxic Chemicals None

16. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Gateway Composites LLC. It relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Gateway Composites LLC assumes no legal responsibility for use of or reliance upon this data.



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