



## **SAFETY DATA SHEET**

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME(S):** FC-3K70TL (ALL SIZES) PAN based Carbon woven fabric  
**PRODUCT USE:** Industrial / Commercial  
**DISTRIBUTOR:** Northern Composites LLC  
 102 Tide Mill Road.  
 Hampton, NH 03842

**FOR MORE INFORMATION CALL:**  
 (Monday-Friday, 9:00am-5:00pm)  
 Quality Assurance Department: (603) 926-1910

**IN CASE OF EMERGENCY CALL:**  
 (800) 424-9300 CHEMTREC

### **2. HAZARDS IDENTIFICATION**

**Classification:** PAN based Carbon woven fabric, Continuous Batch Woven or fabric.  
**GHS Label Elements:** Product as sold is not classified as a hazardous chemical or material.  
**Precautionary Statement:** The carbon fibers are electrically conductive and may cause or create electrical short circuits or malfunctions of electrical equipment and or personal injury (if handled inappropriately around electricity).  
**Hazards Not Otherwise Classified:** Black continuous carbon fiber with resin sizing applied and no distinctive odor. It is not expected to present any immediate concern for emergency response personnel. It may cause mild or temporary mechanical or skin irritation. Avoid direct contact with eyes and skin. Avoid breathing dust if chopping or grinding. Do not swallow. Do not eat, drink or smoke in work area. Wash thoroughly after handling. Wear proper fitting PPE. See Section 4, 7 and 8

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/Mixture:**

Ingredient Name	CAS Number	Weight %
Carbon fabric comprised of continuous Carbon fiber, synthetic	7440-44-0	>96.5-99% (Typical)
Organic Surface Binder/Sizing, typically epoxy resin sizing –Proprietary Mixture	N/A	>0.1-1.5%

### **4. FIRST AID MEASURES**

**General Precaution:** Avoid direct contact with eyes and skin. Avoid breathing dust if chopping or grinding. Do not swallow. Do not eat, drink or smoke in work area. Wash thoroughly after handling. Wear proper fitting PPE.

**Description of Necessary First Aid Measures:**

**Inhalation:** Remove from current environment (source) area to fresh air. Contact emergency room or physician for treatment information if problems persist.

**Skin Contact:** Avoid scratching or rubbing affected area as this may lead to more mechanical type irritation. Immediately wash with a gentle stream of ambient or cool water over the affected area for several minutes. A mild soap may be used if available. If any symptoms persist, seek medical attention as further treatment may be necessary. If carbon fiber becomes embedded due to mechanical action, seek medical attention.

**Eye Contact:** Rinse with a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact emergency room, or physician as further medical treatment may be necessary.

**Ingestion:** Not expected to occur during industrial activities. If it is ingested, this product is not expected to cause any significant adverse effects.

**Most Important Symptoms/Effects, Acute and Delayed:**

**Potential Acute Health Effects:**

- Inhalation:** Exposure to respirable fibers of this product is not expected to occur under normal industrial conditions due to size (5-7 microns in diameter). In a dust created environment, it may cause mechanical irritation to the mucus membranes and upper respiratory tracts
- Skin Contact:** May cause skin irritation and redness as well as itching and drying of skin. Mechanical irritation may occur from carbon fiber abrading onto skin through mechanical motions (rubbing, scratching). Prolonged exposure or repeated contact may cause allergic skin reactions and possible sensitizations.
- Eye Contact:** Contacts with this product may cause mechanical eye irritation and or eye redness. Dust from cutting or grinding of product (by customer processing) may cause mechanical eye irritation.
- Ingestion:** Not expected to occur during industrial activities. If it is ingested, this product is not expected to cause any significant adverse effects.

**Over-Exposure Signs/Symptoms:**

- Inhalation:** None known
- Skin Contact:** None known
- Eye Contact:** None known
- Ingestion:** None known

**Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary**

<b>Notes to Physician:</b>	None
<b>Specific Treatments:</b>	None Required

---

**5. FIRE FIGHTING MEASURES**

---

- Suitable Extinguishing Media:** Use extinguishers appropriate for surrounding fire such as dry chemical, foam or CO2, or water spray.
- Hazardous Thermal Decomposition Products:** N/A
- Precautions for Fire-Fighters:** Avoid exposure to fire by using a self-contained positive pressure breathing apparatus as well as other protective fire-fighting equipment normally worn for fire.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** N/A
- OTHER INFORMATION:** None

---

**6. ACCIDENTAL RELEASE MEASURES**

---

- Personal Precautions, Protective Equipment, and Emergency Procedures:** No special requirements.
- Methods and Materials for Containment and Cleaning Up:** Sweep or gather up material and place in proper container for disposal or recovery. Use vacuuming or wet sweeping methods instead of dry sweeping. Wear the proper personal protective equipment as described in Section 8 for cleanup activities. Do not incinerate, instead place into plastic bags or other landfill approved containers.
- ENVIRONMENTAL PRECAUTIONS:** Do not allow to enter ground water, sewage or drains

---

**7. HANDLING AND STORAGE**

---

- Precautions for Safe Handling:** Handle in a manner consistent with good and safe industrial techniques and practices. Provide adequate ventilation and local exhaust as needed.
- Conditions for Safe Storage:** Store at or below 25°C (77°F) and relative humidity less than 65% for optimum performance. Wear the specified PPE protection as described in Section 8 when handling product.
- Incompatibilities:** Strong oxidizers, acids, and bases

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

The values below are for particulates not otherwise classified and apply only under certain circumstances or conditions.

<b>Respiratory Protection:</b>	Normal use or application of this product does not generate dust. If other procedures create dust, use an appropriate NIOSH-approved particulate filter respirator.
<b>Eye Protection:</b>	As generally good practice, safety glasses with side shields should be worn.
<b>Skin/Hand Protection:</b>	Protective gloves recommended while handling
<b>Other Protective Clothing or Equipment:</b>	Wear clean, body-covering clothing (lab-coat or smock). Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls or long-sleeved loose-fitting clothing will maximize comfort. Work clothing should be laundered separately from other clothing before reuse. Discard all types of PPE that have been contaminated
<b>Work Hygienic Practices:</b>	Practice safe work habits. Wash hands before handling food
<b>Ventilation:</b>	Use local exhaust or general room/dilution ventilation sufficient to maintain employee exposure below permissible exposure limits.
<b>Exposure Limits:</b>	<b>OSHA: Not established –guidelines--</b> 15 mg/m3 TWA. (total dust) 5 mg/m3 TWA. (respirable dust)
	<b>ACGIH: Not established—guidelines--</b> 10 mg/m3 TWA (inhalable fraction) 3 mg/m3 TWA (respirable fraction)

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Physical State:</b>	Solid
<b>Color:</b>	Black Continuous Fiber
<b>Odor:</b>	None
<b>Odor Threshold:</b>	None
<b>pH:</b>	Not Applicable
<b>Melting Point: carbon fiber</b>	>65000 F/ 36000 C
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	Does Not Flash
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability:</b>	Not applicable
<b>Explosive Limits:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Specific Gravity: (water=1)</b>	1.75-1.85
<b>Solubility:</b>	Insoluble
<b>Auto-Ignition Temperature:</b>	Not Tested
<b>Decomposition Temperature:</b>	Not Tested

---

## 10. STABILITY AND REACTIVITY

---

<b>Reactivity:</b>	Stable under recommended storage conditions
<b>Chemical Stability:</b>	Stable under recommended storage conditions
<b>Possibility of Hazardous Reactions:</b>	None known
<b>Conditions to Avoid:</b>	Extreme weather variations
<b>Incompatible Materials:</b>	None known under normal circumstances.
<b>Hazardous Decomposition Products:</b>	Not expected under normal conditions of processing and use. If exposed to burning conditions of a high heat source; carbon oxides and other unidentified gases and vapors produced may be toxic. Avoid inhalation in these conditions without a properly approved breathing apparatus. Vapors may be irritating see sections 7 and 8
<b>Hazardous Polymerization:</b>	Will not occur

---

## 11. TOXICOLOGICAL INFORMATION

---

<b>TOXICOLOGICAL INFORMATION:</b>	This product is not classified as a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. The percentages listed above ( <b>Section 3</b> ) will vary dependent upon the specific carbon fiber used to manufacture the woven fabric; as well as the sizing epoxy configuration percentages.
<b>Immediate (acute) effects:</b>	There is no acute data available on this product. The oral, dermal, and inhalation acute toxicity of this product are expected to be very low
<b>Delayed effects:</b>	No delayed or chronic effects have been identified. Sensitization of the fiber manufacturer's proprietary uncured epoxy resin sizing could occur. Contact the department listed on page 1 of this document for more information.
<b>Carcinogenicity Status:</b>	This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

---

## 12. ECOLOGICAL INFORMATION

---

<b>ECOTOXICITY:</b>	Carbon fiber is generally considered to be an inert solid waste. No ecological data has been determined. The material is not classified as harmful to the environment. Component as carbon fiber CAS # 7440-44-0.
<b>PERSISTENCE AND DEGRADABILITY:</b>	This product has no known eco-toxicological effects. It is considered to be an inert solid waste
<b>BIOACCUMULATIVE POTENTIAL:</b>	This product has no known eco-toxicological effects. It is considered to be an inert solid waste
<b>MOBILITY IN SOIL:</b>	This product has no known eco-toxicological effects. It is considered to be an inert solid waste
<b>OTHER ADVERSE EFFECTS:</b>	Do not allow to enter ground water, sewage or drains.

---

## 13. DISPOSAL CONSIDERATIONS

---

<b>DISPOSAL METHOD:</b>	Waste material must be disposed by the user in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.
<b>RCRA Classification:</b>	If discarded in its manufactured form, this product is not expected to be a characteristic or specifically listed hazardous waste under RCRA. However, it is the responsibility of the user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste.

---

## 14. TRANSPORT INFORMATION

---

<b>US DOT HAZARD CLASS (CFR 49):</b>	Not regulated
<b>US DOT ID NUMBER:</b>	Not applicable.
<b>TRANSPORTATION OF DANGEROUS GOODS:</b>	Not applicable.
<b>IATA:</b>	Not applicable.
<b>INTERNATIONAL MARITIME DANGEROUS GOODS:</b>	Not applicable.

Not classified as dangerous goods according to the national and international regulations on the transport of dangerous goods. For additional information on shipping regulations affecting this material, contact the information number found on the first page.

---

**15. REGULATORY INFORMATION**

---

<b>US EPA TSCA:</b>	This product is considered an article and is exempt from TSCA requirements. RCRA 40 CFR part 261.33: classified as non-hazardous waste.
<b>SARA TITLE III:</b>	SARA (311, 312) Hazard Class: NA
<b>SARA (313) Chemicals:</b>	Contains no toxic chemicals at or above the determined threshold subject to report requirements.
<b>SARA Extremely Hazardous Substance:</b>	Not Listed
<b>CERCLA Hazardous Substance:</b>	Not Listed
<b>CA Proposition 65:</b>	insignificant trace quantity
<b>PA; MA; NJ right to know:</b>	less than reportable quantity
<b>CANADA REGULATIONS (WHMIS):</b>	NA

---

**16. OTHER INFORMATION**

---

**CURRENT ISSUE DATE:** July 29, 2019  
**PREVIOUS ISSUE DATE:** N/A

**CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:**

**OTHER INFORMATION:** None

Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, Northern Composites LLC makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Northern Composites LLC be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. **NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.**