



FIELD-APPLIED COMPOSITE SYSTEMS LLC
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SAFETY DATA SHEET

C-3 Carbon Tape

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-3 Carbon Tape Fabric

MFR'S NAME: Field-Applied Composite Systems LLC, 925 North Todd Avenue, Azusa CA 91702

EMERGENCY PHONE: 800.424.9300 (CHEMTREC) **GENERAL INFORMATION:** 626.633.0294

USE OF THE SUBSTANCE: Standard carbon tape used with PowerSleeve™ and AquaWrap™ Resin systems to repair piping and other infrastructure items.

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS status: Not considered hazardous. However, proper handling measures are important to observe and are covered herein.

GHS Label Elements:

Hazard Pictograms:



Signal Word: None

Hazard Statements and GHS Classifications:

H315	Causes skin irritation (due to dust creation/skin contact).	Not Categorized
H320	Causes serious eye irritation (due to dust creation).	Not Categorized

Precautionary Statements:

Prevention: P261: Avoid breathing dust.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective clothing, gloves and eye protection.

Responses: P301+P313+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek medical attention if irritation occurs and persists.
P302+P352+P333+P313: IF ON SKIN: Rinse skin with water/shower and wash with plenty of soap and water. If skin irritation or rash occurs, get medical attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists, get medical attention.
P304+P340+P313 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if irritation persists.
P391: Collect spillage.

Storage: P403+P233: Store in a well-ventilated place. Keep containers tightly closed.

Disposal: P501: Dispose of contents and containers in accordance with all local, regional and international regulations.

Other Hazards: None known. Exposure may aggravate pre-existing skin, eye, or respiratory conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance.

CHEMICAL NAME	CAS NUMBER	CONTENT
Carbon Fiber	7440-44-0	90-100%
Sizing (organic surface binder)	N/A	0-10%

Occupational Exposure Limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Description of necessary first aid measures:

General	Get medical attention immediately for any person who is having trouble or not breathing, or any unconscious person. Provide oxygen or artificial respiration to a person if they have trouble breathing. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Place an unconscious person in a recovery position, maintain an open airway and loosen tight clothing. Heal
Inhalation	Remove victim to fresh air and keep warm and at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if irritation persists.
Skin Contact	Remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water. Launder clothing before reuse. Get medical attention if irritation persists.
Eye Contact	Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids and rolling eyes in a circular motion. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes, or longer if there is any indication that material remains in the eye. Get medical attention if irritation persists.
Ingestion	Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. DO NOT induce vomiting. Get medical attention.

Most Important Symptoms/Effects, Acute and Long –Term:

Potential Acute Health Effects:

Inhalation	Dustin high concentrations may irritate respiratory system. Exposure to decomposition products may cause a health hazard.
Skin Contact	May cause skin irritation.
Eye Contact	Irritating and may cause redness and pain.
Ingestion	May cause discomfort if swallowed.

Overexposure Signs/Symptoms:

Inhalation	Allergic or asthma-like difficulty in breathing.
Skin Contact	Adverse symptoms may include the following: Irritation and/or Redness.
Eye Contact	Adverse symptoms may include the following: Pain or Irritation. Watering. Redness.
Ingestion	No specific data.

Indication of Immediate Medical Attention and/or Special Treatment needed:

Notes to Physician Treat symptomatically.

Specific Treatments No specific treatment(s).

See also Toxicological Information in Section 11.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media Dry chemicals, foam or carbon dioxide.

Unsuitable Media Full water jet.

Specific Hazards Material is not considered a fire or explosion hazard and will not burn. Material may smoke due to sizing and polyester content.

National Fire Protection Association (USA):

Labeling: Health: 1 Fire: 1 Reactivity: 0

Hazardous Thermal Decomposition Products

Oxides of carbon and/or nitrogen may be emitted due to exposure to fire. See **Section 10** for additional information.

Special Protective Actions for Fire Fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire Fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode during the attack phase of firefighting operations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unauthorized persons away. Provide adequate ventilation and avoid breathing dust. Put on appropriate personal protective equipment (see **Section 8**). If spilled in an enclosed area, ventilate area or use SCBA.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up (Small or Large Spill)

Dust particles will settle out of the air. Vacuum area to remove particles. Pick up larger pieces and dispose of as solid waste in accordance with local, state or national regulations. Use vacuum or wet sweeping methods instead of dry sweeping.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling/Personal Hygiene

Use appropriate personal protective equipment as per **Section 8**. Keep in the original container or an approved alternative; keep containers closed when not in use. Do not reuse containers without cleaning carefully with soap and water.

Avoid creating dust. Eating, drinking and/or smoking should be prohibited where this material is being used. Workers should remove contaminated clothing/protective equipment and wash hands and face and before entering eating areas and eating, drinking and/or smoking.

Conditions for Safe Storage, including any Incompatibilities

Store in sealed original containers, or approved alternatives, when not in use in a dry, well-ventilated area. Protect containers from direct sunlight in a dry, cool and well ventilated area around 25°C (~77°F) and 85% relative humidity for best performance.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>ACGIH TWA</u>	<u>NIOSH PEL (TWA)</u>
Carbon Fiber	7440-44-0	N/A	N/A

Appropriate Engineering Controls

Good general ventilation should be sufficient to control worker exposure to any airborne contaminants. If working in enclosed spaces, provide additional local ventilation. Fibers are electrically conductive. Airborne fibers/dust can short-circuit electrical equipment.

Exposure controls

Respiratory Protection

If necessary, a properly-fitted vapor mask/respirator complying with an approved standard (NIOSH N95) should be used.

Hand Protection

Impervious gloves (such as nitrile rubber of .35mm thickness or similar) should be worn when handling this material. Contaminated gloves should be disposed of properly.

Body Protection

Long-sleeved shirts and long pants or lab coats are recommended. Contaminated clothing should be washed separately from other clothes before reuse. Footwear appropriate for the work being performed should be worn and cleaned carefully if contaminated, before reuse.

Eye/Face Protection

Safety eyewear and face shields appropriate for the work being performed should be used. Ordinarily, this means a minimum of safety eyewear or splash goggles.

General

Use good laboratory/workplace procedures. Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Color:	Black
Odor:	None	Odor Threshold:	N/A
pH	N/A	Melting Point:	>2,760°C (>5,000°F)
Boiling Point:	N/A	Flash Point:	N/A
Evaporation Rate:	N/A	Vapor Pressure/Density:	N/A
Relative Density	N/A	Viscosity:	N/A
Auto-Ignition Temp.	N/A	Decomposition Temp.	N/A
Upper/Lower Flammability or Explosive Limits	N/A		
Solubility:	Insoluble.		
VOC Content:	None.		

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: This product is stable under normal conditions.

Possibility of Hazardous Reactions: N/A

Conditions to Avoid: Avoid excessive heat for prolonged periods, sunlight.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Thermal decomposition may produce smoke, small traces of oxides of carbon and nitrogen, and other products of incomplete combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

There are no known health effects from the long-term use or contact with non-respirable, continuous filament carbon fibers as manufactured and as directed for use in this application.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

All components.

Oral LD₅₀ (Rat)
N/A

Dermal LD₅₀ (Rabbit)
>2,000mg/kg

Persistence and Degradability:

CHEMICAL NAME

All components

OECD Derived from OECD 301F (Biodegradation Test)-28 Days

Not tested, but expected to be low based on similar substances.

Bioaccumulative Potential:

No information is available.

Mobility in Soil:

All components

Soil/Water Partition Coefficient (K_{oc})

No information available.

Other Adverse Effects/Information: No other information is available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused contents in accordance with national and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

UN No's:

N/A-not regulated

DOT/TDG/UN Proper Shipping Name: None assigned.(non-regulated)

Hazard Classes: N/A-not regulated.

Hazard Labels: N/A-not regulated.

Pack Groups: N/A-not regulated.

Environmental Hazards: Marine Pollutant: No.

Hazardous Substance (USA): No.

Special Precautions for User: No information is available.

Transporting in Bulk per Annex II of MARPOL73/78 and IBC: No information is available.

Label for Conveyance: N/A-not regulated.

SECTION 15: REGULATORY INFORMATION

International and US Inventory Lists

Canada Inventory (DSL)	All components listed or exempt	EU-ELINCS	All components listed or exempt.
Canada Inventory (NDSL)	All components listed or exempt	EU-EINECS	All components listed or exempt.
US Toxic Substances Control Act (TSCA)	All components listed or exempt.	REACH, Annex XIV and Annex XVII	All components listed or exempt.

Substances of Very High Concern: N/A-none.

SARA:

Section 311/312: No hazards noted.

Section 313: Hazardous if respirable, which should not occur in this application.

OSHA: 29 CFR 1910.1200: Considered hazardous if respirable, which should not occur in this application.

WHMIS: No information available.

HMIS Ratings: Not Rated.

Other Information: N/A

SECTION 16: OTHER INFORMATION

ABBREVIATIONS:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR/RID: European dangerous goods transport, road and rail, regulations
CAS: Chemical Abstract Service Registry
DOT: Department of Transportation (U.S.)
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
OEL: Occupational Exposure Limits
OSHA: Occupational Safety and Health Administration (U.S.)
PEL: Permissible Exposure Limit
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
TDG: Canadian Transportation of Dangerous Goods Act and Regulations
TPQ: Threshold Planning Quantity
RQ: Reportable Quantity
UN: United Nations
U.S.: United States
N/A: Not available or not applicable.

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Notice:

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