

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name: Vectorply Carbon Fiber Fabrics
 Synonyms: C-L, C-T, C-LA, C-LT, C-BX, C-TTX, C-TLX, C-QX, C-BXi, C-Li, C-Ti, C-LTi, C-TTXi, C-TLXi, C-QXi, C-BXR, C-BY, C-QXR, C-TR, C-LR, C-LTR, C-TLXR, C-TT XR, C-W, C-WV, C-WZ

Supplier Name: Vectorply Corporation
 Address: 3500 Lakewood Dr.
 Phenix City, AL 36867 USA
www.vectorply.com

Company Phone Numbers: 1-800-577-4521 (US) Monday-Friday 8:30am - 5:30pm EST
 01-334-291-7704 (Outside US) Monday-Friday 8:30am - 5:30pm EST

*** Vectorply Corp. does not manufacture any of the component parts of the products covered by this SDS. This SDS is a compilation of the SDS data furnished by these manufacturers. SDS information for component parts can be made available upon request.**

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Appearance/Odor: Odorless, black fabric with black or white polyester stitching
WARNING!
 MAY CAUSE SKIN IRRITATION
 MAY CAUSE EYE IRRITATION
 MAY CAUSE UPPER RESPIRATORY TRACT IRRITATION
 MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR

Potential Health Effects: See Section 11 for more information.
 Likely Routes of Exposure: Eye contact, skin contact, Inhalation .
 Inhalation: Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.
 Ingestion: This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.
 Skin: Temporary irritation (itching) or redness may occur.
 Eyes: Temporary irritation (itching) or redness may occur.
 Medical conditions aggravated by exposure: Pre-existing chronic respiratory, skin, or eye diseases or conditions.
 Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200)
 Carcinogenicity: May contain material, glass fiber, which may cause cancer, base on animal data. Risk of cancer depends on duration and level of exposure
 Environmental: Carbon fiber is electrically conductive and it can cause the short-circuiting of electrical equipment. There is no known ecological information for this material, see section 12 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component:	CAS #	% by Wt.
Polyester Yarn	25038-59-9	0 - 5
Sizing	Not Available	0 - 5
Carbon Fiber(Continuous filament, non respirable)	7440-44-0	75-100
Fiber Glass Veil(Continuous filament, non respirable)	65997-17-3	0-15
Polyester Veil	25038-59-9	0-15
Copolyamide Veil	Not Available	0-15

SECTION 4: FIRST AID MEASURES

Inhalation: Remove to fresh air. Seek medical attention if irritation persists. If not breathing, if breathing is irregular or if respiratory arrest occurs, get medical attention, provide artificial respiration or oxygen by trained personnel.
 Ingestion: Ingestion of this product is unlikely. If swallowed, rinse mouth with water (only if person is conscious). Get medical attention immediately if irritation develops and persists.
 Skin Contact: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing before reuse.
 Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide (CO2), water fog.
 Unsuitable Extinguishing Media: Full water jet.
 Products of Combustion: Carbon monoxide, Nitrogen oxides, carbon dioxide, hydrogen, other undetermined compounds could be released in small quantities.
 Protection of Firefighters: Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protection recommended in Section 8.
Environmental Precautions:	No special precautions are needed in case of a release or spill.
Methods for Containment:	This material will settle out of air. Prevent from spreading by covering, diking, or other means.
Methods for Clean-up:	This material will settle out of air. Pick up large pieces, carefully sweep or vacuum remaining material and place in suitable container. Avoid generating dust.
Other Information:	Dispose of as solid waste in accordance with local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

Handling:	Use appropriate personal protective equipment (See section 8). Avoid dust generation. Avoid contact with skin and eyes. Do not breathe dust. Do not swallow. In the supplied form the product is not explosive at all, however the buildup of fine dust can lead to a risk of dust explosions. Keep away from sources of ignition - refrain from smoking.
Storage:	Do not store together with oxidizing agents. Store in accordance with local, state, and federal regulations. Keep product in its packaging to avoid dust generation. Store at or below 25° C (77° F) and relative humidity less than 65% for optimum performance.

SECTION 8: EXPOSURE CONTROL/PERSONEL PROTECTION

Exposure Limits:	
Carbon Fiber:	TLV-TWA: 10mg/m3 Total dust, 3 mg/m3 respirable (ACGIH) PEL-TWA: 15 mg/m3 total dust, 5 mg/m3 respirable (OSHA)
Fiber Glass:	TLV-TWA: 1 f/cc, 10mg/m3 Total dust, 3 mg/m3 respirable (ACGIH) PEL-TWA: 15 mg/m3 total dust, 5 mg/m3 respirable (OSHA) TWAEV: 1 f/cc respirable, 5 mg/m3 inhalable (Ontario Canada) TWA: 10 mg/m3 (Mexico)
Polyester / Copolyamide:	Not Available
Engineering Controls:	Use local/general exhaust ventilation as required to keep airborne concentrations below exposure limits.
Eye/face Protection:	Safety glasses with side-shields.
Skin Protection:	Long pants, long sleeved shirt, and protective gloves.
Respiratory Protection:	Respiratory protection must be used If ventilation is not available or inadequate to keep dust and fiber levels below exposure levels listed in section 8. A NIOSH approved disposable N95 type dust respirator or better is recommended.
General Hygiene Considerations:	Wash hands immediately after handling product and before breaks. Wash contaminate clothes thoroughly before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black fabric with black or white polyester stitching with or without polyester or glass veil.
Odor:	Odorless
Odor Threshold:	N/A
Physical State:	Solid
pH:	Not available
Melting Point:	3500° C (Carbon), >800° C (Glass), 250-300° C (Polyester), 125-135° C (Copolyamide)
Initial Boiling Point and Boiling Range:	Not available
Flash Point:	Not available
Evaporation Rate:	Not available
Flammability:	Not available
Flammability or Explosive Limits:	Not Available
Vapor Pressure:	Not Available
Specific Gravity:	1.7 - 1.9 (Carbon), 2.60 (Glass), 1.68 (Polyester), 1.10 (Copolyamide) (Ref: water = 1.00)
Solubility:	Insoluble
Partition Coefficient:	Not Available
Autoignition Temperature:	Not Available
Decomposition Temperature:	Carbon begins to oxidize at temperatures >240° C in a standard environment.
Electrical Conductivity:	Yes,

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Avoid contact with strong oxidizing agents. Accumulation of fine dust may entail the risk of dust explosion in the presence of air.
Incompatible Materials:	Strong oxydizers.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of Hazardous Reactions:	Reactions with strong oxydizers may occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Summary: There are no known health effects from the long term use or contact with carbon fibers.
 There are no known health effects from the long term use or contact with nonrespirable continuous filament glass fibers. As manufactured, the glass fibers in this product are nonrespirable.
 Continuous filament glass fibers that are chopped, crushed, or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Effects: This material is not expected to cause harm to animals, plants or fish.
 Other Adverse Effects: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
 Dispose of as solid waste in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

Transport Regulations: This product is not classified as dangerous goods according to international transport regulations.

SECTION 15: REGULATORY INFORMATION

Global Inventories	All components listed or exempted
TSCA: United States	All components listed or exempted
DSL: Canada	All components listed or exempted
KECI: Korea	All components listed or exempted
PICCS: Philippines	All components listed or exempted
ENCS: Japan	All components listed or exempted
AICS: Australia	All components listed or exempted
IECSC: China	All components listed or exempted
REACH: European Union	All components listed or exempted

United States
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: No products were found.
 CERCLA Hazardous substances: No products were found.

SARA 311/312 MSDS Distribution - Chemical Inventory - Hazard Identification:

Chemical Name	CAS#	Acute	Chronic	Fire	Reactive	Pressure
Carbon Fiber	7440-44-0	Y	N	Y	Y	N
Fiber Glass	65997-17-3	Y	Y	N	N	N
Product as-supplied		Y	Y	N	N	N

Canada
 WHMIS (Canada) None identified.

SECTION 16: ADDITIONAL INFORMATION

HMIS Health Hazard	1
HMIS Flammability Hazard	0
HMIS Reactivity:	0
HMIS Personal Protection:	X

Disclaimer: Vectorply Corp. does not manufacture any of the component parts of the products covered by this SDS. This SDS is a compilation of the SDS data furnished by these manufacturers. SDS information for component parts can be made available upon request.

The information and data contained in this SDS are presented in good faith and believed to be reliable, Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data, or products can be used without infringing patents of third parties.