

1. Identification

Product Identification

Product Identifier:	CSS V-Wrap™ HMCA
Recommended Use:	CSS V-Wrap™ HMCA is a Carbon Fiber Anchor that is laminated with CV-770 to create a composite anchor used in accordance with CSS V-Wrap Fabrics.
Use Restrictions:	Tampering with product can compromise the integrity of the product and create health hazards.

Company Identification

Company:	Simpson Strong-Tie Company Inc.
Address:	5956 W. Las Positas Blvd. Pleasanton, CA 94588
Phone:	1-800-999-5099
Website:	www.strongtie.com
Emergency:	1-800-535-5053 (US/Canada) 1-352-323-3500 (International)

For most current SDS, please visit our website at www.strongtie.com/sds

2. Hazard Identification

General Information

CSS V-Wrap™ Carbon Anchors are carbon fiber anchors for strengthening and retrofitting applications, designed to be laminated with an epoxy resin (CV-770). As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, this product is considered an article and does not require an SDS. Although these products are not subject to the OSHA Standard or GHS labeling elements, Simpson Strong-Tie would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. In its manufactured and shipped state this product is considered to present a low hazard. However, on site processing, such as grinding or cutting, may generate fiberglass and carbon fiber dust and particles that may present the following hazards. See the CSS V-Wrap™ 770 Safety Data Sheet for more information if using in accordance with this product.

GHS Classification

Under normal conditions, Carbon Anchors are not expected to pose any health or safety hazards. However, any processes that involve the formation of carbon anchor dust/particles can result in health and safety hazards. Additionally, carbon fiber is electrically conductive, which can result in the short-circuiting of electrical equipment. Customers with sensitivities may experience mild skin irritation or sensitization when working with the carbon anchors. Other hazards will apply if field-laminating carbon anchors with CSS V-Wrap™ 770. See CSS V-Wrap™ 770 Safety Data Sheet for complete safety information. Ensure that good work practices and the necessary precautionary measures are taken to maintain safe use of the product.

Hazards Not Otherwise Classified (HNOC)

The following potential health and safety hazards are associated with the creation of carbon anchor dust/particles due to customer processes. Most hazards are expected to be due to the mechanically abrasive nature of the dust/particles, and are expected to only be temporarily irritating.

Physical Hazards:	Not Classified		
Health Hazards:	Skin Corrosion/Irritation	Category 3	H316: Causes mild skin irritation
	Serious Eye Damage/Irritation	Category 2	H319: Causes serious eye irritation
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
	STOT, Single Exposure	Category 3	H335: May cause respiratory irritation
Environmental Hazards:	Not Classified.		
OSHA Hazard:	Combustible Dust	May form combustible dust concentrations in air	
Main Symptoms:	Irritation of eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin. May cause shortness of breath or other respiratory distress/irritation.		



Contains: Carbon fiber, Fiberglass, Polyester Veil, Copolyamide Veil, Polyester Yarn, Sizing

Signal Word:**WARNING!****Precautionary Statements:****Prevention:**

P102: Keep out of reach of children.
 P103: Read label before use.
 P261: Avoid breathing dust.
 P264: Wash hands thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P272: Contaminated clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response:
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P363: Wash contaminated clothing before reuse.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 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 advice/attention.
 P314: Get medical advice/attention if you feel unwell.
Storage:
 P420: Store away from incompatible materials.
Disposal:
 P501: Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.**3. Composition Information****General Information**

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Global Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Resin (White Side)

Chemical Name	Weight %	CAS Number	EC Number
Carbon Fiber	75-100	7440-44-0	231-153-3
Classifications: Eye Irrit. 2: H319, STOT SE 3 : H335			
Fiberglass (continuous filament, non respirable)	< 15	65997-17-3	266-046-0
Classifications: None			
Polyester Veil	< 15	25083-59-9	---
Classifications: None			
Copolyamide Veil	< 15	N/A	N/A
Classifications: N/A			
Polyester Yarn	< 5	25083-59-9	---
Classifications: None			
Sizing	< 5	N/A	N/A
Classifications: N/A			

4. First-Aid Measures**General Information**

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Routes of Exposure

Eye Contact: If experiencing eye irritation due to dust, flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If you experience redness, burning, blurred vision, or swelling, **consult a physician**.

Skin Contact: If experiencing skin irritation, wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation occurs **consult a physician**.

Ingestion: Ingestion is unlikely. If swallowed, rinse mouth immediately. **Consult a physician**.

Inhalation: Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, **consult a physician.**

Most Important Symptoms

Irritant effects. Symptoms include itching, burning, redness, tearing, and blurred vision; discomfort in the chest, shortness of breath, coughing.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder, or water fog.

Additional Information: This material is not expected to burn in a fire. If this product is present in a fire, fight fire based on the packaging material, surrounding material, etc. The sizing may burn off the fiber.

Hazards during Fire-Fighting: Fiber or dust may glow in an oxygen-containing atmosphere above 662°F (350°C). When glowing, and during combustion CO/CO₂ is generated. Additionally, there is the potential release of degradation products such as NH₃, HCN and monomeric acrylonitrile. Irritating and toxic gases/fumes may be released during a fire.

Fire-Fighting Procedures: Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Other Information: This product is not expected to burn. Do not incinerate carbon fibers since airborne fibers may cause electrical malfunctions.

6. Accidental Release Measures

Personal Precautions

Keep unnecessary personnel away. Wear appropriate personal protection equipment. Avoid inhalation of dusts.

Clean-Up Methods

This product is not expected to present a serious spill hazard. If spilled, collect spilled material and either reuse or dispose of properly.

Avoid processes that result in the creation of dust. In the case of the creation or spill of process dust, avoid dry sweeping. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system. If not possible, gently moisten dust before collection with shovel or broom. Dispose of in closed containers.

Environmental Precautions

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling

Wear appropriate personal protective equipment. If processing, use work methods which minimize carbon anchor dust production. Do not breathe dust, and ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. When in use do not eat, drink, or smoke. Wash thoroughly after handling. Use good housekeeping and observe good industrial hygiene practices.

Storage

Store in a closed container away from incompatible materials. Store in a cool, dry place.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Protective Measure: Wear appropriate personal protective equipment.

Eye Protection: Wear goggles or safety glasses.

Hand Protection: Protective gloves recommended.

Skin and Body Protection: Wear long sleeve shirts/long pants and other clothing as required to minimize contact.

Respirator Protection: The use of a respirator is not required during normal use of this product. An approved respirator should be worn whenever workplace conditions warrant respirator use.

General Hygiene: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

When using indoors good general ventilation should be used. Ventilation rates should be matched to conditions. Provide eyewash station.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
General Nuisance Dust	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)	3 mg/m ³ (respirable) 10 mg/m ³ (total dust)	N/E

*Under certain conditions this substance may be a nuisance dust.

9. Physical and Chemical Properties

Physical State:	Solid	Freezing/Melting Point:	N/A
Form:	Solid/Continuous Fiber	Boiling Point:	N/A
Color:	Black	Flash Point:	N/A
Odor:	None	Evaporation Rate:	N/A
Odor Threshold:	N/A	Specific Gravity:	1.7-1.9
pH:	N/A	VOC:	N/A
Flammability:	N/A	U/L Flammability:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Solubility:	Insoluble	Kow:	N/A
Decomposition:	N/A	Viscosity:	N/A

10. Stability and Reactivity

Reactivity:	Stable and non-reactive under normal conditions of use and storage.
Chemical Stability:	Stable under normal conditions of use and storage.
Condition to Avoid:	None known.
Substances to Avoid:	Strong oxidizing agents such as fluorine.
Hazardous Reactions:	Hazardous polymerization will not occur.
Decomposition Products:	Not expected under normal conditions of processing and use. Thermal decomposition of sizing may begin to occur at high temperatures >248°F (>120°C) resulting in the release of small amounts of nitrogen oxides, carbon monoxide, organic compounds, and other potentially hazardous substances.

11. Toxicological Information

Likely Routes of Exposure

Ingestion:	May cause discomfort if swallowed.
Inhalation:	May cause respiratory tract irritation if process dust is inhaled.
Skin contact:	May cause skin irritation or sensitization.
Eye contact:	May cause eye irritation. Particles can cause corneal abrasion.
Symptoms:	Rash, redness, itching, burning, tearing, swelling, and blurred vision. May cause shortness of breath or coughing.

Information on Toxicological Effects

Acute Effects

Toxicity:	Not expected to be acutely toxic.
Skin corrosion/irritation:	Prolonged contact may cause temporary irritation.
Eye damage/eye irritation:	Direct eye contact may cause temporary irritation
Respiratory sensitization:	No data available.
Skin sensitization:	May cause an allergic skin reaction.
Aspiration hazard:	No data available.
Specific target organ toxicity	
Single exposure:	May cause respiratory irritation.

Chronic Effects

Germ cell mutagenicity:	No data available.
Carcinogenicity:	This product contains synthetic fibers. While OSHA does not classify fiberglass as a carcinogen, some mineral fibers are considered to be potentially carcinogenic. Only certain mineral fibers, such as biopersistent fibers, show evidence for possible carcinogenicity. They are only considered carcinogenic in their respirable form through prolonged and excessive exposure. These mineral fibers are not expected to be present in this product. Ensure good work practice and the use of personal protective equipment to minimize exposure to processing dust.
Reproductive toxicity:	No data available.

Specific target organ toxicity

Repeated exposure: No data available.

Carcinogen / Reproductive Toxin / Mutagen Information

Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Synthetic Mineral Fibers	< 15	3	ANTICIPATED	---	---

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic
 NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
 ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected
 CA65 – California Prop 65

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material or processing dust.

12. Ecological Information

General Information

Information given is based on data on the components and the ecotoxicology of similar products. This product is not classified as environmentally hazardous. Large or frequent spills can have a harmful or damaging effect on the environment, but is unlikely due to the nature of the product.

Supporting Data

Persistence and degradability: No data available.
Bioaccumulative potential: No data available for the product.
Mobility in soil: No data available.

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. Disposal Considerations

Waste Disposal of Substance: Do not allow material into sewers/water supplies. Do not contaminate ponds, waterways or ditches. Dispose of contents/container in accordance with local/regional/national/international regulations.
Container Disposal: Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be disposed of in accordance with local/regional/national/international regulations.

14. Transportation Information

DOT: CSS V-Wrap™ HMCA is not regulated for transport.
IMDG/IATA: CSS V-Wrap™ HMCA is not regulated for transport.

Additional Information

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

15. Regulatory Information

United States

Federal Regulations: This product is an "Article" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories:

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

SARA 302 Extremely hazardous substance: No

SARA 311/312 Hazardous chemical: Yes

SARA 313 (TRI reporting): Not regulated.

California Proposition 65:

WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to www.P65Warnings.ca.gov.

Carcinogen / Reproductive Toxin / Mutagen Information

Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Epichlorohydrin (CAS 106-89-8)	Trace	2A	ANTICIPATED	A3	CA65 (Carcinogenic)
Phenylglycidyl Ether (CAS 122-60-1)	Trace	2B	---	A3	CA65 (Carcinogenic)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic
 NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
 ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected
 CA65 – California Prop 65

*The nature of this product makes exposure to these chemicals very unlikely.

Canada

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

International

The product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

Date Prepared or Revised: June 2022

Supersedes: New

Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Abbreviations

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS No.:	Chemical Abstract Service Registry Number
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
HPR:	Hazardous Product Regulations (Canada)
DOT:	Department of Transportation (U.S.)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HEPA:	High-Efficiency Particulate Air
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods code

CSS V-Wrap™ HMCA

SAFETY DATA SHEET



NIOSH:	National Institute of Occupational Safety and Health (U.S.)
NFPA:	National Fire Protection Association (US)
NTP:	National Toxicology Program (US)
OSHA:	Occupational Safety and Health Administration (U.S.)
PEL:	Permissible Exposure Limit
SARA:	Superfund Amendments and Reauthorization Act (U.S. EPA)
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
STOT:	Specific Target Organ Toxicity (GHS Classification)
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act (U.S.)
TWA:	Time Weighted Average (exposure for 8-hour workday)
VOC:	Volatile Organic Compounds
WHMIS:	Canadian Workplace Hazardous Materials Information System

Disclaimer

Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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Internal

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