

S&P C-Laminate SM (150/2000) & S&P C-Laminate HM (200/2000)

SAFETY DATA SHEET

SIMPSON**Strong-Tie**

This Safety Data Sheet was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia and the New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06]. This product has been classified according to the hazard criteria of the Globally Harmonized System (GHS) and contains all of the information required by Safe Work Australia and Work Safe New Zealand.

1. Identification

Product Identification

Product Identifier: S&P C-Laminate SM (150/2000) & S&P C-Laminate HM (200/2000)
Recommended Use: S&P C-Laminate SM (150/2000) & S&P C-Laminate HM (200/2000) are used for structural reinforcement.
Use Restrictions: To ensure proper installation use according to package directions, complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Australia Pty Limited
Address: Unit 1/16 Kenoma Place
Arndell Park, NSW 2148
Australia
Phone: +612 9831 7700
Website: www.strongtie.com.au
Emergency: 13 11 26

Company: Simpson Strong-Tie New Zealand
Address: 52A Arrenway Drive
Albany, Auckland 0632
New Zealand
Phone: +64 9 477 4440
Website: www.strongtie.co.nz
Emergency: 0800 POISON (0800 764 766)

2. Hazard Identification

General Information

S&P C-Laminate is a prefabricated (pultruded), carbon fibre reinforced polymer for structural reinforcement of structures made from concrete, masonry, steel or wood. This product has been assessed according to the Globally Harmonized System (GHS). Some hazards may apply upon grinding or cutting through hardened product. This Safety Data Sheet covers the hazards and responses for the safe use of this product.

GHS Classification



Exclamation Point

According to REACH Regulation 1907/2006 EC, the product is considered as an article. The preparation of a safety data sheet in accordance with Article 31 of the Regulation (EC) No.1907/2006 is not legally required for articles. As being an article the product does not require label in accordance with CLP Regulation (EC) No. 1272/2008 and this safety data sheet (SDS) is provided on the voluntary basis for information purpose only.

Hazards Not Otherwise Classified (HNOC)

The following potential health and safety hazards are associated with the creation of dust/particles due to the cutting and processing of carbon fabrics, These health 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 Can form explosive air-dust mixtures; avoid creating dust.
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
Signal Word: **WARNING!**
Precautionary Statements:
Prevention: Do not allow dust to build up on work surfaces.
P261: Avoid breathing dust.

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	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/clothing/eye protection/face protection.
Response:	P302+P352:	IF ON SKIN: Wash with plenty of water.
	P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.
	P363:	Wash contaminated clothing 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 advice/attention.
Storage:	P314:	Get medical advice/attention if you feel unwell.
	P402:	Store in a dry place.
	P403:	Store in a well-ventilated place.
	P405:	Store locked up.
	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 if not above. All concentrations are in percent by weight unless otherwise noted.

Composition- All concentrations are in percent by weight unless otherwise indicated.

Chemical Name	Weight %	CAS Number	EC Number
Carbon Fiber on basis polyacrylonitrile (carbon) Classifications: Eye Irrit. 2: H319, STOT SE 3: H335	50-75	308063-67-4	231-153-3
Vinylester epoxy resin Classifications: Skin Sens: H317	25-50	36425-16-8	500-090-6

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:	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 immediately.
Skin Contact:	Wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation occurs consult a physician. Sharp edges may cause cuts and irritation. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.
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. Rash. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause shortness of breath or 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.

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- 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 protective equipment. Avoid inhalation of dusts.

Clean-Up Methods

This product is not expected to present a serious spill hazard. Carbon fibers may be slippery (in sheet form or if chopped or milled) and can pose a fall risk. If spilled, collect (sweep, vacuum, etc.) 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. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling

Mechanical ventilation or local exhaust ventilation is recommended. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Do not breathe dust, mist, or vapor. Use only in well-ventilated places. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid dust formation. Observe good industrial hygiene practices. To obtain optimal performance from Simpson Strong-Tie products and to achieve maximum allowable design load, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Store in a closed container away from incompatible materials. Store in a cool, dry place out of direct sunlight.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

- Protective Measure:** Wear appropriate personal protective equipment.
- Eye Protection:** Wear chemical splash goggles or safety glasses with side shield.
- Hand Protection:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.
- 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

Mechanical ventilation or local exhaust ventilation is recommended. Ventilation rates should be matched to conditions to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

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

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

9. Physical and Chemical Properties

Physical State:	Solid	Freezing/Melting Point:	N/A
Form:	Solid, Roll	Boiling Point:	N/A
Color:	Black	Flash Point:	N/A
Odor:	None	Evaporation Rate:	N/A
Odor Threshold:	N/A	Specific Gravity:	1.7-2
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. Physical and Chemical Properties

Reactivity:	This product is stable and non-reactive under normal conditions.
Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	None known.
Substances to Avoid:	Strong acids, alkalis, and 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:	Not likely, due to the form of the product. However, ingestion of dusts generated during working operations may cause nausea and vomiting.
Inhalation:	Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
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 if dust is inhaled.

Chronic Effects

Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available. 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.

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.

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12. Ecological Information

General Information

Information given is based on data on the components and the ecotoxicology of similar products. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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) 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: S&P C-Sheet 240 and S&P C-Sheet 640 are not regulated for transport.
IMDG/IATA: S&P C-Sheet 240 and S&P C-Sheet 640 are 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 Regulation: This product is a "Hazardous Chemical" 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.

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.**

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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: August 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)
CPR:	Controlled Product Regulations (Canada)
DOT:	Department of Transportation (U.S.)
EPA:	Environmental Protection Agency (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
LPP:	Limité Permissible Ponderado (Chile)
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)
SDS:	Safety Data Sheet
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)
U.S.:	United States
VOC:	Volatile Organic Compounds
WHMIS:	Canadian Workplace Hazardous Materials Information System

Disclaimer

This Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. 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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