

**CST CARBON FIBRE FILAMENT WOUND AND PULTRUDED PRODUCTS MSDS**

- NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS -

Rev. B , 01/03/2016

Product Id: CST-585

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name : Filament wound, pultruded and fabricated carbon fibre products  
Use : Yacht masts & spars, telescopes, structural reinforcing, tripods, rowing oars, and other light weight composite applications  
Company : WTG Pty Ltd (trading as CST Composites)  
Telephone : + 61 2 9668 8488  
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**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

Article made from carbon fibre reinforced epoxy resin

**Hazardous components**

Chemical Name	CAS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Carbon synthetic fibre				60 – 80%
Cured epoxy resin				20 – 40%

**3. HAZARDS IDENTIFICATION**

This product contains no substances that are classified as being hazardous to health according to the criteria of Safework Australia.

Poison schedule: Not scheduled

**4. FIRST AID MEASURES**

Inhalation : Only likely to be an issue if cutting and/or machining the composite. Move to fresh air.  
If symptoms persist, call a physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.

Skin contact : Wash off with soap and plenty of cold water.  
Use a wash cloth to help remove the fibres.



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Do NOT use solvents or thinners.  
If skin irritation persists, call a physician.

Ingestion : Immediately give plenty of water (if possible charcoal slurry).  
If a person vomits when lying on his back, place him in the recovery position.  
Oxygen or artificial respiration if needed.  
Do not induce vomiting.

**Notes to physician**

Treatment : No specific antidote. Treat symptomatically.  
First aid facility: Eye wash station . Showering facility.  
Poisons Information Centres (131 126 in Australia and 0800 764 766 in New Zealand) in each State capital city can provide advice for scheduled poisons.

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**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray.  
Carbon dioxide (CO2).  
Foam.  
Dry powder.

Extinguishing media which must not be used for safety reasons : High volume water jet.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

Further information : Burning produces obnoxious and toxic fumes.  
Carbon oxides, nitrogen oxides

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**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Keep away from sources of ignition - no smoking.  
Avoid contact with skin, eyes and clothing.  
Do not breathe dust.

Environmental precautions : Prevent product from entering drains.  
Do not contaminate surface water.  
Avoid subsoil penetration.

Methods for cleaning up : Take up mechanically and collect in suitable container for disposal. Avoid dust formation by using a vacuum cleaner.

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**7. HANDLING AND STORAGE**
**Handling**

Advice on safe handling : Product as received is inert unless disturbed by cutting or machining. Provide sufficient air exchange and/or exhaust in work rooms.  
 Ensure adequate ventilation.

**Storage**

Further information on storage conditions : Keep away from food, drink and animal feeding stuffs.  
 Keep at temperatures between 10 and 30°C.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
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**Engineering measures**

Wherever possible, the workplace must be ventilated sufficiently to ensure that exposure standards are met. Ensure airflow, where this product is being used, is directed away from the operators.  
 If this product is to be cut or sanded, ensure that dust is kept below the Worksafe Exposure Standard for inspirable dusts (10mg/m<sup>3</sup>) or the ACGIH Exposure Standard for respirable dusts (3mg/m<sup>3</sup>).

**Personal protective equipment**

Eye protection : Tightly fitting safety goggles.  
 Face-shield.

Hand protection : Rubber or plastic gloves

Skin and body protection : Protective suit.  
 Safety shoes.

Protective measures : Keep away from sources of ignition - No smoking.  
 Avoid contact with skin, eyes and clothing.

Use with adequate ventilation. If risk of inhalation exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

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Wear overalls, chemical resistant goggles and impervious gloves (as per AS 2161, or as recommended by supplier).

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Cured epoxy and carbon tube or laminate
Colour	: Black
Odour	: None
pH	: Not applicable
Boiling point	: Not applicable
Thermal decomposition	: >200°C
Flash point	: Not applicable
Vapour pressure	: Not applicable
Density	: 1.5 – 1.9
Water solubility	: Insoluble
Miscibility with water	: Immiscible
Viscosity, dynamic	: Not applicable

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**10. STABILITY AND REACTIVITY**

Conditions to avoid	: Take necessary action to avoid static electricity discharge, especially in the case where the article is to be machined, resulting in the generation of dusts.
Materials to avoid	: Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition products	: Carbon and Nitrogen oxides. Burning produces obnoxious and toxic fumes.  Product will not decompose explosively.
Hazardous reactions	: Product as received will not present a dust explosion hazard. However, if the product is to be machined, or sanded, a dust explosion hazard may be created. All dust generated should be removed as quickly as possible, preferably by the use of a vacuum cleaner.

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**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: Remarks: No adverse health effects expected, however ingestion of large amounts may cause nausea and vomiting. LD50 rat
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Acute inhalation toxicity	:	Dose: > 5,000 mg/kg (estimated) Remarks: Where product is machined in poorly ventilated areas, and/or in confined spaces and/or at elevated temperatures, dusts may be irritating to the respiratory system.
Eye irritation	:	Irritation may arise from dust particles lodging in the eyes
Skin irritation	:	Mild irritation may arise from dust particles on the skin
Sensitisation	:	Skin sensitisation from the presence of residual uncured epoxy resin is possible but not expected
Further information	:	Chronic exposure: Skin sensitisation arising from uncured epoxy resin may occur from frequent and/or prolonged exposure to dusts generated by cutting and machining.

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**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Product is not expected to be harmful to plants, animals or fish.

**Further information on ecology**

Additional ecological information : Avoid subsoil penetration.  
Prevent product from entering drains.  
Do not contaminate surface water.

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**13. DISPOSAL CONSIDERATIONS**

Product : Avoid contact with skin, eyes and clothing. Clean up material, out into a suitable container and dispose of properly in accordance with all local regulations.

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**14. TRANSPORT INFORMATION****Land transport**

## Road/ADG:

Regulation: Not dangerous goods

## Rail/ADG:

Regulation: Not dangerous goods

**Sea transport**



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*IMDG:*

Regulation: Not dangerous goods

**Air transport**

*IATA:*

Regulation: Not dangerous goods

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**15. REGULATORY INFORMATION**

Not a hazardous substance according to the criteria of Safework Australia, therefore labeling according to the National Code of Practice is not required.

Symbol(s): : Not applicable

R-phrases(s) : Not applicable

S-phrases(s) : Not applicable

National legislation

Notification status

: AICS yes

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**16. OTHER INFORMATION**

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent.

**Contact point:**

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