



**SASpine**

Australian Plantation Pine Products

S.A. Sawmilling Pty Ltd  
2 Francis Road  
Wingfield SA 5013  
ABN: 30 077 544 462  
Ph: (08) 8200 6700  
Fax: (08) 8200 6750

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## MATERIAL SAFETY DATA SHEET

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### **NAME: CCA TREATED PLANTATION SOFTWOOD**

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**Important Notice:** This Material Safety Data Sheet (MSDS) is issued by S.A. Sawmilling Pty Ltd in accordance with Worksafe Australia guidelines. As such, the information contained herein must not be altered, deleted or added to. S.A. Sawmilling Pty Ltd will issue a new MSDS when there is a change in product specifications and / or Worksafe Australia guidelines / regulations. S.A. Sawmilling will not accept any responsibility for any change made to its MSDS in content by any other person or organisation.

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#### IDENTIFICATION

**Product Name:** CCA Treated Plantation Softwood

**Chemical Name:** Copper Chrome Arsenic Treated Softwood

**UN Number:** None Allocated

**Trade name:** Various

**DG Class:** None Allocated

**Subsidiary Risk:** None Allocated

**HAZCHEM Code:** None Allocated

**Poisons Schedule Number:** None Allocated

**Use:** Copper chrome arsenic (CCA) plantation softwood is used for outdoor applications in garden furniture, fencing, pergolas and decking. The treatment is to protect the timber from fungi and insects.

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## Physical Description/Properties:

**Appearance:** CCA treated plantation softwood has a green colour and weathers to varying shades of grey over several years. The product is sold as treated round wood, or sawn and moulded profiles.

**Odour:** After fixation there is no particular odour.

**Boiling Point:** Not Applicable

**Melting Point:** Not Applicable

**Vapour Pressure:** Not Applicable

**Flash Point:** Not Applicable

**Flammability limits in air:** Not flammable under normal conditions of use. (See "Fire/Explosion Hazard" on Page 6).

**Specific Gravity (Water = 1)** Varies according to timber species and moisture content.

**Molecular Weight:** Not Available

**Solubility (Water):** Insoluble

**pH:** Not Available

**Auto-ignition Temperature:** Not Applicable

## Composition/Ingredients:

<b>Ingredient</b>	<b>Formula</b>	<b>Concentration</b>	<b>CAS No.</b>
ARSENIC	As	< 0.8%	7440-38-2
CHROMIUM	Cr	< 0.8%	7440-47-3
COPPER	Cu	< 0.5%	7440-50-8
TIMBER (SOFTWOOD/HARDWOOD)	Not Available	> 98%	Not Available
PRESERVATIVES	Not Available	Not Available	Not Available

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## HEALTH HAZARD INFORMATION

**Health Effects:** Handling wood may cause splinters.

The Copper, Chrome and Arsenic solution is fixed by a chemical reaction, which changes the water Soluble CCA with chromium (VI), into an insoluble preservation with chromium (III), in the treated plantation softwood. The solution is fixed into the wood within 2 to 14 days depending on humidity and temperature. It is believed that no absorption of CCA into skin will occur after fixation period.

The following health effects refer to exposure to CCA treated plantation softwood sawdust:

**Acute Health Effects:**

**Ingestion:**

Unlikely under normal conditions. However a single ingestion by a small child of approximately 75 grams CCA treated sawdust may be life threatening. Swallowing wood dust may cause nausea, abdominal pain and diarrhoea.

**Eye:**

CCA treated sawdust is irritating to the eyes, resulting in redness and watering.

**Skin:**

Skin contact with freshly treated product and/or sawdust may result in skin irritation. Wood dust contact with skin may result in allergic dermatitis.

**Inhalation:**

Inhalation of CCA treated sawdust may be irritating to the nose, throat and lungs and may cause breathing difficulties.

**Chronic Effects:**

Repeated inhalation of dust from this product may cause nasal and other respiratory cancers. Some compounds of arsenic are associated with an increased risk of lung cancer. Some chromium compounds have been associated with an increased risk of nasal cancer. Exposure to wood dust in some susceptible people may result in respiratory and skin sensitisation leading to asthma and dermatitis respectively.

However, if the work practices noted in this MSDS are followed, and exposure to airborne dusts are kept low, no chronic health effects are anticipated.

**First Aid:**

**Ingestion:**

Ingestion is considered unlikely. However, if ingestion does occur, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a Doctor.

**Eye:**

Exposure is considered unlikely. No eye irritation is anticipated.

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**Skin:** (Dust). Gently flush affected areas with water. Seek medical attention if irritation develops.

**Inhalation:** Exposure is considered unlikely. An inhalation hazard is not anticipated.

**Advice to Doctor:** Treat symptomatically.

**First Aid Facilities:** Eye wash facilities and safety shower available.

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### EXPOSURE CONTROL/PERSONAL PROTECTION

**Ventilation:** Use with adequate natural ventilation. If sanding, drilling or cutting, use appropriate local extraction ventilation. Maintain dust levels below the recommended exposure standard.

**Exposure Standards:**

ARSENIC (7440-38-2)  
ES-STEL: 0.002 mg/m<sup>3</sup> (NIOSH)  
ES-TWA: 0.05 mg/m<sup>3</sup> (Arsenic & soluble compounds)  
WES-TWA: 0.05 mg/m<sup>3</sup>

CHROMIUM (7440-47-3)  
ES-TWA: 0.5 mg/m<sup>3</sup> (Chromium Metal)  
WES-TWA: 0.5 mg/m<sup>3</sup>

COPPER (7440-50-8)  
ES-TWA: 1 mg/m<sup>3</sup> (Copper Dust or Mist)  
ES-TWA: 0.2 mg/m<sup>3</sup> (Copper Fume)  
WES-TWA: 1 mg/m<sup>3</sup> (Copper Dust or Mist)  
WES-TWA: 0.2 mg/m<sup>3</sup> (Copper Fume)

**Respiratory protection:** Avoid breathing sawdust from CCA treated plantation softwood. Wear a P1 or P2 respirator suitable for particulate and conforming with Australian Standards AS/NZS 1715 and AS/NZS 1716 when exposed to dust. These standards should be followed in the selection, fit-testing, use, storage and maintenance of the respirators.

**Skin protection:** Wear industrial gloves (AS 2161), loose comfortable clothing and boots. Long sleeved shirts and long trousers are recommended if skin irritation occurs. Wash skin with mild soap and water after working with CCA treated plantation softwood. Launder work clothes regularly and separately from other clothes.

**Eye protection:** Non-fogging goggles or safety-glasses (AS/NZS 1337) should be worn if there is a risk of wood dust getting into the eyes.

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**Other:**

Before eating, drinking, smoking or using the toilet and at the end of the day wash hands and face with mild soap and water after working CCA treated plantation softwood.

**Flammability:**

Not flammable under normal conditions of use, but is combustible and will help sustain a fire.

### SAFE HANDLING INFORMATION

**Storage & Transport:**

CCA treated plantation softwood should be stored in a well-ventilated area away from sources of heat, flame or sparks. Where CCA treated plantation softwood is to be used for playground equipment or log cabin construction, a storage period of 6 weeks is recommended before distribution in accordance with AS 1924.

No special transport requirements are considered necessary.

**Spills and disposal:**

Offcuts and general waste material should be placed in containers and disposed of at approved landfill sites or incinerated in accordance with local authority guidelines. CCA treated plantation softwood **MUST NOT BE BURNT** in open fires, stoves, fireplaces and residential boilers.

**Fire/explosion hazard:**

CCA treated plantation softwood will help sustain a fire and the dust may form an explosive mixture with air. Avoid sparks, the build up of static electricity and sources of ignition in all electrical equipment and dust extraction equipment. During a fire, irritant and toxic gas and fume can be emitted from CCA treated plantation softwood. Self contained breathing apparatus should be worn by fire fighters.

In a fire, use water jets to extinguish flames.

### OTHER INFORMATION

**Smoking:**

S.A. Sawmilling Pty Ltd recommends that all storage and work area should be smoke-free areas.

### PRODUCT LABELLING

**Pack labels:**

All SASpine CCA Treated packs have labels, and brochures, which contain relevant health and safety information.

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## **CONTACT POINT**

**Further information may be obtained from:**

**Manager - Environment, Safety & Quality**

**Emergency Telephone: 0410 401 139**

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