

# MATERIAL SAFETY DATA SHEET (MSDS)

## Lifewood CCA **TREATED TIMBER**



[www.penrosepine.com.au](http://www.penrosepine.com.au)



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name: Penrose Pine Products Pty Ltd  
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 Website: www.penrosepine.com.au  
  
 Synonyms: Lifewood® - CCA Treated Timber  
 Uses: Building Applications, Timber

## 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA.  
 NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE.

UN No.	None Allocated	Hazchem Code:	None Allocated	Pkg Group:	None Allocated
DG Class:	None Allocated	Subsidiary Risk(s):	None Allocated	EPG:	None Allocated

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
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

## 4. FIRST AID MEASURES

**Eye:** Exposure is considered unlikely. No eye irritation is anticipated.  
**Inhalation:** Exposure is considered unlikely. An inhalation hazard is not anticipated.  
**Skin:** (Dust). Gently flush affected areas with water. Seek medical attention if irritation develops.  
**Ingestion:** Ingestion is considered unlikely. However, should ingestion occur, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor.  
  
**Advice to Doctor:** Treat symptomatically.  
**First Aid Facilities:** Eye wash facilities should be available.

## 5. FIRE FIGHTING MEASURES

**Flammability:** Combustible - potentially explosive dust if exposed to heat or ignition sources, however due to the nature of use the risk is extremely low. May evolve toxic gases (carbon/chromium/arsenic/copper oxides) when heated to decomposition.

**Fire and Explosion:** Combustible - potentially explosive dust. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon/arsenic/copper/chromium oxides) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

PRODUCT NAME: **Lifewood CCA TREATED TIMBER**

Extinguishing: Water spray or fog, for large quantities. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

Hazchem Code: None Allocated.

## 6. ACCIDENTAL RELEASE MEASURES

Spillage: Collect and re-use where possible.

## 7. STORAGE AND HANDLING

Storage: Store in a cool, dry area.

Handling: Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS/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 and its 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), 0.2 mg/m<sup>3</sup> (copper fume)

WES-TWA: 1 mg/m<sup>3</sup> (copper dust or mist), 0.2 mg/m<sup>3</sup> (copper fume)

PPE: Wear cotton or leather gloves. Where a dust or fire ash inhalation risk is present, wear a Class P1 (Particulate) respirator. If cutting or sanding with potential for dust generation, wear dust-proof goggles and a Class P1 (Particulate) Respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grey/Green coloured solid	Solubility (water):	Insoluble
Odour:	Slight odour	Specific gravity:	Not available
pH:	Not available	% Volatiles:	Not available
Vapour pressure:	Not available	Flammability:	Combustible
Vapour density:	Not available	Flash point:	Not available
Melting point:	Not available	Upper explosion limit:	Not available
Boiling point:	Not available	Lower explosion limit:	Not available
Evaporation rate:	Not available	Autoignition temperature:	Not available

## 10. STABILITY AND REACTIVITY

Reactivity: Compatible with most commonly used materials.

Decomposition: May evolve toxic gases (carbon/chromium/arsenic/copper oxides) when heated to Products decomposition.

**11. TOXICOLOGICAL INFORMATION**

## Health hazard

**Summary:** Low toxicity. This product may only present a hazard if wood is sanded, drilled or cut with dust generation. Avoid generating dust. Wood dust is classified as carcinogenic to humans (IARC Group 1), adverse health effects are usually associated with long term exposure to high dust levels. Arsenic is classified as carcinogenic to humans (IARC Group 1), however due to nature of product adverse effects are not anticipated.

**Eye:** Exposure considered unlikely. Product may only present a hazard if wood is cut or sanded with dust generation, which may result in lacrimation and irritation.

**Inhalation:** Exposure considered unlikely. No inhalation hazard is anticipated unless wood is cut, drilled or sanded with dust generation, which may result in mucous membrane irritation of the upper respiratory tract with over exposure. Chronic over exposure to wood dust may result in nasal and paranasal sinus cancers.

**Skin:** Exposure considered unlikely. If dust is generated, prolonged exposure may result in irritation, itching, redness, rash and possible dermatitis.

**Ingestion:** Exposure considered unlikely. Due to product form, ingestion is considered highly unlikely.

## Toxicity

**Data:** ARSENIC (7440-38-2)

Carcinogenicity: Confirmed carcinogenic to humans (IARC Group 1)

Health Surveillance: Required [NOHSC:1005(1994)]

LD50 (Ingestion): 145 mg/kg (mouse)

CHROMIUM (7440-47-3)

Health Surveillance: Required [NOHSC:1005(1994)]

**12. ECOLOGICAL INFORMATION**

**Environment:** Limited ecotoxicity data was available for this product at the time this MSDS was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal:** Dispose of to an approved landfill site. Contact the manufacturer for additional information.

**Legislation:** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

**Shipping name:** None allocated

**UN No.:** None allocated

**Pkg Group:** None allocated

**DG Class:** None allocated

**Hazchem Code:** None allocated

**Subsidiary risk(s):** None allocated

**EPG:** None allocated

**15. REGULATORY INFORMATION**

**Poison Schedule:** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS:** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**16. OTHER INFORMATION**

Addition Information: The CCA (copper, chrome arsenic) treatment protects against fungal and insect attacks.

**ARSENIC EXPOSURE:** Acute arsenic ingestion generally produces symptoms within 30 to 60 minutes, but onset may be delayed for several hours if ingested with food. A metallic or garlic taste, vomiting, abdominal pain, dysphagia, and profuse watery (rice-like) and sometimes bloody diarrhoea may occur. Dehydration, intense thirst, & fluid-electrolyte disturbances are common. Hypovolemia from capillary leaking ("third spacing" of fluids) is a common early sign. Systemic arsenic poisoning from occupational exposure is uncommon. Arsenic workers have developed a hoarse voice, nasal irritation and possible perforation of the nasal septum, irritation of eyes, skin, and mucous membranes, and rarely, cirrhosis of the liver. Nausea and vomiting are infrequent. Painful ulceration of the wrist and scrotal skin, lips, and nostrils may develop with dust exposure. The primary target organs initially are the gastrointestinal tract, heart, brain, and kidneys. Eventually, the skin, bone marrow, and peripheral nervous system may be significantly damaged. The peripheral neuropathy appears similar regardless of the route of exposure.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

Abbreviations:

mg/m<sup>3</sup> - Milligrams per cubic metre  
ppm - Parts Per Million  
TWA/ES - Time Weighted Average or Exposure Standard.  
CNS - Central Nervous System  
NOS - Not Otherwise Specified  
pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.  
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.  
M - moles per litre, a unit of concentration.  
IARC - International Agency for Research on Cancer.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this MSDS is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application.