

**STATEMENT OF HAZARDOUS NATURE**

Hazardous according to criteria of Worksafe Australia

**COMPANY DETAILS**

Company	KOPPERS ARCH WOOD PROTECTION (AUST) PTY LIMITED
	ABN 95 003 780 872
Address	15 Blue Street, North Sydney, NSW, 2060.
Telephone Number	(02) 9954 5433
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Emergency Telephone Number	(02) 4967 4777 (24 hours)

**IDENTIFICATION**

Product Name	<b>TANALITH C Salts Dilute Working Solution</b>
Other Names	Copper Chrome Arsenate, CCA solution
Manufacturer's Product Code	
UN Number	None allocated
Correct Shipping Name	
Dangerous Goods Class	Not A Dangerous Good
Subsidiary risk	
Hazchem Code	
Packaging Group	
Poisons Schedule	
Uses	CCA concentrate is diluted into water and used for the pressure impregnation treatment of timber against fungal and insect attack. Usual solution strengths are 1.0 - 15.0 % m/v CCA.

**Physical Description / Properties**

Appearance & Odour	Orange free flowing liquid. Slight acid fume odour with metallic tang.
Boiling Point	105°C
Vapour Pressure	Not determined
Flashpoint	Not applicable
Flammability Limits	Not applicable
Viscosity	Not applicable
Solubility in Water	Freely soluble

**Other Properties**

Thermal Decomposition	Not determined
pH	1.7 - 2.0 as a 2% m/v solution @ 20°C
Specific Gravity	1.00 to 1.06 depending on exact CCA concentration
Incompatibility	May react with organic materials (oxidation)
Vapour Density	Not determined
Volatile Proportion	Not applicable

**Ingredients**

	Chemical Name	CAS Number	Proportion %m/v
Active ingredient/s	Cupric sulfate pentahydrate	7758-99-8	1 - 4
	Sodium dichromate	7789-12-0	1 - 4
	Arsenic acid	7778-39-4	1 - 4
Inerts	Water	7732-18-5	>88

<b>HEALTH HAZARD INFORMATION</b>
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**Health Effects**
*Acute*

Swallowed Harmful if swallowed. May cause nausea, dizziness, chills, irritability and variable paralysis. May result in internal damage.

Eye Corrosive to eyes. Contact with the eyes may cause permanent damage.

Skin May be absorbed through skin and cause damage to internal organs. Corrosive to and irritating to skin, can cause burns. May cause dermatitis and ulceration.

Inhaled May cause irritation of the nose, throat and respiratory tract. May cause muscle spasm, dizziness and collapse.

*Chronic* Chronic overexposure may cause perforation of the nasal septum, liver and kidney damage, dermatitis, fatigue, disturbance of the digestive and nervous systems. Chromium and arsenic are listed in the IARC monographs as human carcinogens. IARC monographs do not consistently distinguish between different arsenic and chromium species. CCA does not contain the forms of arsenic or chromium primarily implicated in the IARC reviews. A number of independent epidemiological studies on timber treatment plant workers exposed to CCA preservative have not shown any increased risk of death or disease as a result of their exposure.

**First Aid**

Swallowed Get immediate medical aid. Give a glass of water to dilute stomach contents. If more than 15 minutes from a hospital induce vomiting using saline solution.

Eye Hold eyes open and flush with plenty of water for at least 15 minutes. Remove contact lenses before flushing and seek medical attention.

Skin Remove contaminated clothing (including shoes if affected). Wash affected area with soap and water. If irritation or any effects consistent with skin absorption are present after washing, seek medical attention.

Inhaled Remove affected person to fresh air and monitor airways and breathing. If breathing has stopped administer artificial respiration. If breathing is difficult ensure airways are clear and have a qualified person give oxygen. Seek medical attention.

First Aid Facilities Emergency shower, eye wash, hand wash.

**Advice to Doctor** In cases of suspected poisoning by ingestion, treat for arsenic poisoning. Aspirate stomach contents and lavage with 3 litres of isotonic saline. Administer activated charcoal (50 - 100g) as a slurry including a cathartic such as sorbitol. On evidence of significant absorption promptly give dimercaprol (BAL) i.m. as a 10% solution in vegetable oil as follows: 3mg/kg q4h on days 1-2, 3 mg/kg q6h on day 3 and 3 mg/kg q12h thence to day 10.

Regular medical surveillance for skin and systemic effects is necessary for persons handling the preservative or wet CCA (after treatment) treated timber or who work in the treatment plant. Urinary arsenic and chromium levels should be regularly determined.

**PRECAUTIONS FOR USE**

- Exposure Standards** No value has been assigned for the product. Exposure limit standards for some of the constituents of this preparation are as follows:
- |                           |                       |
|---------------------------|-----------------------|
| Constituent:              | mg/m <sup>3</sup> TWA |
| Copper dust & mists as Cu | 1.0                   |
| Chromium (VI) as Cr       | 0.05                  |
| Arsenic (V) as As         | 0.05                  |
- Engineering Controls** Mechanical (general) ventilation is recommended if working in enclosed spaces. Otherwise general ventilation in open areas should be adequate to control inhalation exposure below current exposure limits. Studies have indicated that contaminated dust is a major cause of exposure, control dust generation.
- Personal Protection** The product whether concentrate or dilute solution should only be handled by persons trained to do so. Use good occupational work practices. When opening containers, preparing solution or handling treated timber, wear full length overalls, goggles, elbow length PVC gloves and impervious footwear. Note: CCA can penetrate leather shoes. Wash hands, arms and face before eating, drinking, smoking, using the toilet and at the end of the workday. Wash contaminated safety equipment before reuse. Launder contaminated work clothes separately from household laundry.

**SAFE HANDLING INFORMATION**

- Storage and Transport** Concentrate is supplied in drums or bulk tanker. Store in the original closed containers (with labels visible) or in approved labelled tanks in a well ventilated cool area and away from food stuffs or incompatible materials. Storage area must be secure, bunded and not accessible to un-authorized persons. Protect drums or tanks from physical damage and check regularly for leaks.
- Dilute CCA solutions under 13.5% m/v in strength are not classified as Dangerous Goods. Vessels holding dilute solution must be labelled as '%m/v Copper Chromium Arsenic solution'.
- Spills and Disposal** In case of spillage alert the Fire Brigade to location and give a description of the hazard. Increase ventilation and/or wear breathing apparatus. Wear full protective clothing. Plug or close leak if it is safe to do so. Remove unprotected persons. Contain and absorb spillage with sand or soil. Consult the manufacturer (Koppers-Hickson) as soon as possible after securing the spill. If at all possible prevent spillage from entering drains, sewers or water courses. If this happens advise local water authority immediately. Recover as much product as possible into suitable containers for recycling or disposal. Lime and sand can be used to neutralise unrecoverable product. Dispose of contaminated absorbent and waste product in an approved hydrologically secure landfill tip. Triple rinse empty drums with water and use the rinsate in the tank mix. On-site disposal of dilute or undiluted chemical is not acceptable. Clean empty drums in good condition can be returned for recycling or reuse. Unusable drums should be punctured, crushed and buried in a landfill type tip under at least 500mm or soil.

**SAFE HANDLING INFORMATION cont.**

Fire/Explosion Hazard The product is not flammable. Exposure to extreme heat (fire) may produce fumes containing arsenic, chromium, and copper. Fire exposed containers may build up pressure. Use water jets to cool fire exposed containers. Do not wash product into drains or sewers, with water jets.

**OTHER INFORMATION**

Environmental Protection General The product is toxic to fish and wild life. Do not contaminate drains, sewers, streams or other water bodies with the product or used containers.

The transport, storage or use of the concentrate product requires special licenses which may vary from state to state. The dilute solution under 13.5% m/v is not classified as a Dangerous Good but must be labelled as a 'Dilute CCA Solution'. The use of this product may be subject to other regulations and restrictions not covered in this MSDS depending on the territory. Contact Koppers Arch for further information. Tanalith is a registered trade name of Koppers Arch Wood Protection Pty Ltd.

**CONTACT POINT**

Technical Manager,  
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