

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
 Fax (02) 9954 5467
 Emergency Telephone Number (02) 4967 4777 (24 hours)

IDENTIFICATION

Product Name **TANALITH C 60% SOLUTION**
 Other Names Copper Chrome Arsenate, CCA
 Manufacturer's Product Code
 UN Number 2922
 Correct Shipping Name Corrosive Liquid, Toxic, N.O.S.
 Dangerous Goods Class 8
 Subsidiary risk 6.1
 Hazchem Code 2X
 Packaging Group III
 Poisons Schedule 7
 Uses CCA is used for the pressure impregnation treatment of timber against fungal and insect attack.

Physical Description /Properties

Appearance & Odour Dark orange slightly turbid liquid. Slight acid fume odour with metallic tang.
 Boiling Point 105°C
 Vapour Pressure Not determined
 Flashpoint Not applicable
 Flammability Limits Not applicable
 Viscosity 10 centistokes @ 25°C
 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 1.37
 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	10 - 30
	Sodium dichromate	7789-12-0	10 - 30
	Arsenic acid	7778-39-4	10 - 30
	Inerts	Water	7732-18-5

HEALTH HAZARD INFORMATION

Health Effects

Acute

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

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 severe 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 ³ 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** Use good occupational work practices. The product should only be handled by persons trained to do so. When opening containers, preparing solution, wear full length overalls, a hat, goggles, elbow length PVC gloves and impervious footwear. Note: CCA can penetrate leather shoes. Wash hands, arms and face before eating, drinking, smoking or using the toilet and at the end of the day. Wash contaminated safety equipment before reuse. Launder contaminated work clothes separately from household laundry.

SAFE HANDLING INFORMATION

- Storage and Transport** 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-authorised persons. Protect drums or tanks from physical damage and check regularly for leaks.
- When chemical is diluted to below 13.5% m/v CCA in water it is no longer classified as Dangerous Goods. Vessels should be labelled as 'dilute CCA solution'. High standards of personal protection should still be employed when handling the dilute 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 Arch) 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 of soil.

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 this product requires special licenses which may vary from state to state. 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,
Koppers Arch Wood Protection Pty. Ltd. Station St, Trentham , 3458, Vic.
Tel (03) 5424 1350, Fax (03) 5424 1288.