

**STATEMENT OF HAZARDOUS NATURE**

Not 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	<b>TANALITH E Dilute Work Solution</b>
Other Names	Copper Azole
UN Number	None Allocated
Correct Shipping Name	
Dangerous Goods Class	
Hazchem Code	
Packaging Group	III
Poisons Schedule	6
Uses	Tanalith E concentrate is diluted into water and used for the pressure impregnation treatment of timber against fungal and insect attack.

**Physical Description /Properties**

Appearance & Odour	Deep blue to purple liquid. Slight amine odour
Boiling Point	>149°C
Vapour Pressure	Not determined
Flashpoint	Not applicable
Flammability Limits	Not applicable
Viscosity	not determined
Solubility in water	Forms an emulsion when the concentrate is diluted in water

**Other Properties**

Thermal decomposition	May generate ammonia and oxides of carbon in a fire situation
pH	10.0 +/- 0.5 @ 20°C (5%w/v in water)
Incompatibility	May react strongly with oxidising materials
Specific Gravity	1.00 - 1.05 depending on exact Tanalith E concentration
Vapour density	Not determined
Corrosivity	Not corrosive

**Ingredients**

	Chemical Name	CAS Number	Proportion g/L
Active ingredient/s	Tebuconazole	107534-35-3	<1.0
	Boric Acid	10043-35-3	<10
	Copper Carbonate	12069-69-1	<20
	Mono-Ethanolamine	000141-43-5	<20
Inerts	Di-2-Ethylhexylphthalate	117-81-7	<0.1
	Surfactants and Defoamers	--	<10
	Water	7732-18-5	50-70

**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	Potentially irritating to eyes and mucous membranes. Contact with the eyes may cause permanent damage. Ethanolamine is corrosive to the eyes of rabbits.
Skin	May be absorbed through skin and cause damage to internal organs. May cause dermatitis and ulceration.
Inhaled	Harmful by inhalation. Ethanolamine causes liver and kidney injury and reduced spermatogenesis in short term repeat dose inhalation studies in guinea pigs and dogs.
<i>Chronic</i>	In Ames test (ie. Bacteria), Tanalith E was not mutagenic. Ethanolamine elicited adverse maternal and foetal effects in a reproductive study in rats.

**First Aid**

Swallowed	If poisoning occurs, contact a doctor or Poisons Information Centre immediately. If swallowed, do NOT induce vomiting. Give a glass of milk followed by water.
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, soap.
<b>Advice to Doctor</b>	Treat symptomatically.

**PRECAUTIONS FOR USE**

Exposure Standards	There is no exposure standard for this product, however the standards for the active constituents are as follows:										
	<table border="0" style="margin-left: 20px;"> <tr> <td>Constituent:</td> <td style="text-align: right;">mg/m<sup>3</sup> TWA</td> </tr> <tr> <td>Copper</td> <td style="text-align: right;">1.0</td> </tr> <tr> <td>Boron</td> <td style="text-align: right;">1.0</td> </tr> <tr> <td>Ethanolamine</td> <td style="text-align: right;">7.5</td> </tr> <tr> <td>Di-2-Ethylhexylphthalate</td> <td style="text-align: right;">5.0 (10m<sup>3</sup> STEL)</td> </tr> </table>	Constituent:	mg/m <sup>3</sup> TWA	Copper	1.0	Boron	1.0	Ethanolamine	7.5	Di-2-Ethylhexylphthalate	5.0 (10m <sup>3</sup> STEL)
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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.										
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. <i>Note:</i> Tanalith E 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 boxes (1000L). 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 unauthorised persons. Protect drums or tanks from physical damage and check regularly for leaks. Do not locate near or contaminate food or feed either by storage or disposal. Protect from contact with acids or strong oxidising agents.
Spills and Disposal	Remove/evacuate unprotected persons. Plug or close leak if it is safe to do so. 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. 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.
Fire/Explosion Hazard	The product is not flammable. Exposure to extreme heat (fire) may produce fumes containing copper and mono-ethanolamine. 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. Evacuate down-wind residents, wear full protective clothing and self-contained breathing apparatus.

**OTHER INFORMATION**

Environmental Protection Ecotoxicity	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.  Tanalith E formulated product: Oral LD <sub>50</sub> (male rat)      741 - 760 mg/kg Oral LD <sub>50</sub> (female rat)    650 - 651 mg/kg Dermal LD <sub>50</sub> (rat)        >2020 mg/kg Ames Test                    negative
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**CONTACT POINT**

Technical Manager,  
 Koppers Arch Wood Protection Pty. Ltd., Station St, Trentham, 3458, Victoria.  
 Tel: (03) 5424 1350, Fax (03) 5424 1288.