

Chemwatch Material Safety Data Sheet

Issue Date: 19-May-2007

XC9317EC

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Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

KOPPERS TANALITH E TREATED TIMBER

SYNONYMS

"Copper Azole Treated Timber", "Copper Azole Treated Timber", Ecowood, "tanalised timber", "termite proof timber"

PRODUCT USE

Used in building and for structures, fences etc, particularly where below ground borer and rot resistant timber is required. Sawing and sanding produces dust which contains preservative chemicals. Tanalith E treatment protects timber against fungal and insect attack.

SUPPLIER

Company: Koppers Timber Preservation Pty Ltd Address: 15 Blue St North Sydney NSW, 2060 AUS Telephone: +61 2 9954 5411 Emergency Tel: +61 2 4967 4777

Fax: 02 9900 6122

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

POISONS SCHEDULE

None

RISK

None under normal operating conditions.

SAFETY

Safety Codes Safety Phrases S22 Do not breathe dust. S24 Avoid contact with skin.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| NAME softwood (Pinus and similar low density species), or hardwood (eucalypts and similar medium density species) | CAS RN | % >95 |
|---|-------------|----------|
| impregnation residuals, as | | |
| copper | 7440-50-8 | 0.37-1 |
| tebuconazole | 107534-96-3 | < 0.05 |
| solubilising agents | | |
| triethanolamine | 102-71-6 | 0.5-2.0 |
| boric acid | 10043-35-3 | < 0.5 |
| In use, may generate | | |

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

wood dust

No other ingredient information disclosed. THIS REPORT IS FOR TREATED TIMBER ONLY

Not avail.

Section 4 - FIRST AID MEASURES

SWALLOWED

- · Immediately give a glass of water.
- · First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

EYE

If this product comes in contact with eyes:

- · Wash out immediately with water.
- · If irritation continues, seek medical attention.

SKIN

If skin contact occurs:

- · Immediately remove all contaminated clothing, including footwear.
- · Flush skin and hair with running water (and soap if available).

INHALED

- · If fumes or combustion products are inhaled remove from contaminated area.
- · Other measures are usually unnecessary.

NOTES TO PHYSICIAN

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- $\boldsymbol{\cdot}$ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

FIRE FIGHTING

- · Alert Fire Brigade and tell them location and nature of hazard.
- · Wear breathing apparatus plus protective gloves for fire only.

FIRE/EXPLOSION HAZARD

- Wood products do not normally constitute an explosion hazard.
- Mechanical or abrasive activities which produce wood dust, as a by-product, may present a severe explosion hazard if a dust cloud contacts an ignition source.
- · Solid which exhibits difficult combustion or is difficult to ignite.
- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture
 with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine
 grinding of the solid are a particular hazard; accumulations of fine dust may burn rapidly and fiercely if ignited.

Combustion products include: carbon dioxide (CO2), other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

May emit corrosive fumes.

Ashes may contain free copper and boron residues.

FIRE INCOMPATIBILITY

None known.

HAZCHEM: None

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

- Remove all ignition sources.
- · Clean up all spills immediately.

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Section 6 - ACCIDENTAL RELEASE MEASURES

MAJOR SPILLS

Moderate hazard.

- · CAUTION: Advise personnel in area.
- · Alert Emergency Services and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- · Avoid all personal contact, including inhalation.
- · Wear protective clothing when risk of exposure occurs.

SUITABLE CONTAINER

Not applicable.

STORAGE INCOMPATIBILITY

None known.

STORAGE REQUIREMENTS

- · Keep dry.
- · Store under cover.

Avoid sawing or handling freshly treated wet timber

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| Source | Material | TWAmg/m³ |
|----------------------------|---------------------------------------|----------|
| AustraliaExposureStandards | copper(Copper, dusts&mists(asCu)) | 1 |
| AustraliaExposureStandards | copper(Copper(fume)) | 0.2 |
| AustraliaExposureStandards | tebuconazole(Inspirabledust(nototherw | 10 |
| · | iseclassified)) | |
| AustraliaExposureStandards | triethanolamine(Triethanolamine) | 5 |
| AustraliaExposureStandards | boricacid(Inspirabledust(nototherwise | 10 |
| • | classified)) | |

PERSONAL PROTECTION

EVENELIDE CONTROL S

RESPIRATOR

Type AK-P Filter of sufficient capacity

EYE

- \cdot Safety glasses with side shields.
- · Chemical goggles.

HANDS/FEET

Impervious gloves. Safety footwear. Avoid contact with ash.

OTHER

- · Overalls.
- · P.V.C. apron.

ENGINEERING CONTROLS

- · Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.
- · If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.

Avoid sawing or sanding of timber that is wet (not dry) with treatment chemicals.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Light green to light brown coloured wood; insoluble in water. Resinous wood odour depending on species. Slight metallic tang.
THIS CHEMWATCHREPORTIS FOR TREATEDTIMBER ONLY.

PHYSICAL PROPERTIES

Solid.

Does not mix with water.

State: Divided solid

Molecular Weight: Not applicable Melting Range (°C): Not applicable

Solubility in water (g/L): Insoluble pH (1% solution): Not applicable Volatile Component (%vol): Not available Relative Vapour Density (air=1): Not applicable Lower Explosive Limit (%): Not available Autoignition Temp (°C): 265

Boiling Range (°C): Not applicable Specific Gravity (water=1): 0.4- 1.1

(approx)

pH (as supplied): Not applicable Vapour Pressure (kPa): Not available Evaporation Rate: Not applicable Flash Point (°C): Not applicable

Upper Explosive Limit (%): Not available Decomposition Temp (°C): Not available

Viscosity: Not Available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

- · Presence of incompatible materials.
- · Product is considered stable.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS Not applicable.

CHRONIC HEALTH EFFECTS

Not applicable.

Nil Reported

TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

COPPER:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances. XICITY IRRITATION

TOXICITY
Oral (human) TDLo: 0.12 mg/kg

Oral (rat) LD50: 5800 mg/kg

WARNING: Inhalation of high concentrations

of copper fume may cause " metal

fume fever", an acute industrial disease of short duration. Symptoms are tiredness, influenza like respiratory tract irritation with fever.

TEBUCONAZOLE:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

TOXICITY IRRITATION
Oral (rat) LD50: 4000 mg/kg Non- irritating eyes, skin. *

to Inhalation (rat) LC50: >800 mg/m³/4h Dermal (rat) LD50: >5000 mg/kg Oral (mouse) LD50: 2000 mg/kg Oral (chicken) LD50: 4488 mg/kg Oral (bird) LD50: >1000 mg/kg

[* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop

Protection Council].

(aerosol)

NOEL (2 y)* for rats, 300 mg/kg diet for dogs, 100 mg/kg

for mice, 20 mg/kg

ADI 0.03 mg/kg b.w. *

continued...

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CHEMWATCH 6026-80 Version No:6 CD 2007/4 Page 5 of 7 **Section 11 - TOXICOLOGICAL INFORMATION**

Toxicity Class WHO III; EPA III *

TRIETHANOLAMINE:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

Skin (human): 15 mg/3d (int)- Mild Skin (rabbit): 560 mg/24 hr- Mild Oral (rat) LD50: 8000 mg/kg Oral (rat) LD50: 4920 ul/kg

Dermal (rat) LD50: >16000 mg/kg minor

Dermal (rabbit) LD50: 16 ml/kg * minor

conjunctival irritation

Intraperitoneal (rat) LD50: 1510 mg/kg with

significant discharge;

Oral (mouse) LD50: 5846 mg/kg no corneal

injury *

Intraperitoneal (mouse) LD50: 1450 mg/kg Skin (rabbit): 4 h occluded

Oral (rabbit) LD50: 2200 mg/kg no

irritation *

Dermal (rabbit) LD50: >20000 mg/kg

Oral (g.pig) LD50: 2200 mg/kg

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non -allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.

Limited evidence of a carcinogenic effect*.

Oral (rat) LD50: 5560 mg/kg (calc.) Eye (rabbit): 5.62 mg - SEVERE Oral (rat) LD50: 4.92 ml/kg (female) * Eye (rabbit): 10 mg - mild Oral (rat) LD50: 8.57 ml/kg (male) * Eye (rabbit): 0.1 ml -

(occluded, male or female)

Kill rate 1/5 '

Lachrymation, diarrhoea, convulsions, urinary tract changes, changes in bladder weight, changes in testicular weight, changes in thymus weight, changes in liver weight, dermatitis after systemic exposure, kidney,

ureter, bladder tumours recorded.

Equivocal tumourigen by RTECS criteria.

* Union Carbide

BORIC ACID:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

IRRITATION Skin (human): 15 mg/3d - I- Mild

Oral (woman) LDLo: 200 mg/kg Oral (rat) LD50: 2660 mg/kg Inhalation (rat) LCLo: 28 mg/m³/4h Dermal (man) LDLo: 2430 mg/kg

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.

WOOD DUST:

Not available. Refer to individual constituents.

IARC:3

MATERIAL CARCINOGEN **REPROTOXIN SENSITISER** SKIN

triethanolamine

CARCINOGEN IARC: International Agency for Research on Cancer (IARC) Carcinogens: triethanolamine Category: The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or

AUOEL

limited in animal testing.

SENSITISER

AUOEL: Australia Exposure Standards - Sensitisers: triethanolamine

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Section 12 - ECOLOGICAL INFORMATION

No data

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- · Consult State Land Waste Management Authority for disposal.

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA, **IMDG**

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

REGULATIONS

Koppers Tanalith E Treated Timber (CAS: None):

No regulations applicable

copper (CAS: 7440-50-8) is found on the following regulatory lists;

Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (AQUA/1to 6 - inorganic chemicals)

Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (Domestic water supply - inorganic chemicals)

Australia - Australian Capital Territory - EnvironmentProtection Regulation: Ambient environmental standards (IRRIG - inorganic chemicals)
Australia - Australian Capital Territory - EnvironmentProtection Regulation: Ambient environmental standards (IRRIG - inorganic chemicals)
Australia - Australian Capital Territory - EnvironmentProtection Regulation: Pollutants entering waterways taken to cause environmental harm (Aquatic habitat)
Australia - Australian Capital Territory - EnvironmentProtection Regulation: Pollutants entering waterways taken to cause environmental harm (IRRIG)

Australia - Australian Capital Territory Environment Protection Regulation Pollutants entering waterways - Agriculturaluses (Stock) Australia - Australian Capital Territory Environment Protection Regulation Pollutants entering waterways - Domestic water quality

Australia Dangerous Goods Code Draft 7th Edition - List of Common Pesticides with Corresponding UN Numbers

Australia Exposure Standards

Australia High Volume Industrial Chemical List (HVICL)

Australia Inventory of Chemical Substances (AICS)

Australia National Pollutant Inventory

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix A

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 6

OECD Representative List of High Production Volume (HPV) Chemicals

WHO Guidelines for Drinking-water Quality - Guideline values for chemicals that are of health significance in drinking-water

tebuconazole (CAS: 107534-96-3) is found on the following regulatory lists;

Australia Exposure Standards

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 5

triethanolamine(CAS: 102-71-6) is found on the following regulatory lists;

Australia Chemical Weapons (Prohibition) Act 1994 - Schedule 3

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 5

Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on their Destruction (English)

IMO MARPOL73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk

International Agency for Research on Cancer (IARC) Carcinogens

OECD Representative List of High Production Volume (HPV) Chemicals

The Australia Group Export Control List: Chemical Weapon's Precursors

boric acid (CAS: 10043-35-3) is found on the following regulatory lists;

Austràlia Exposure Standards

Australia High Volume Industrial Chemical List (HVICL)

Australia Inventory of Chemical Substances (AICS)

Australia National Pollutant Inventory

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 5

Australia Therapeutic Goods Administration (TGA) Substances that may be used as active ingredients in Listed medicines

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Section 15 - REGULATORY INFORMATION

OECD RepresentativeList of High Production Volume (HPV) Chemicals boric acid (CAS: 11113-50-1) is found on the following regulatory lists; Australia Exposure Standards
Australia Inventory of Chemical Substances (AICS)
Australia National Pollutant Inventory

No data available for boric acid as CAS: 41685-84-1. No data available for wood dust as CAS: Not avail.

Section 16 - OTHER INFORMATION

Denmark Advisory list for selfclassification of dangerous substances

Substance CAS Suggested codes

triethanolamine 102-71-6 R43

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name boric acid

CAS

10043-35-3, 11113-50-1, 41685-84-1

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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