

TANALITH E (3485)

(REG. NO. L7208, ACT 36 OF 1947)

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

PRODUCT NAME: TANALITH® E
SYNONYM: TANALITH® 3485
PRODUCT TYPE: Water-borne wood preservative based on copper and co-biocides

2. COMPOSITIONS / INFORMATION ON INGREDIENTS

SUBSTANCE: Copper and Azole co-biocides

COMPONENTS: TANALITH® E

Chemical Name	Concentration	CAS Number
Copper Carbonate	22.5 % w/w	12069-69-1
2-AminoethanolCarbonate	<45 % w/w	141-43-5
Tebuconazole	0.49 % w/w	107534-96-3
Boric Acid	4.9 % w/w	10043-35-3
Di-2-ethylhexylphthalate	<5% w/w	117-81-7

R20: Harmful by irritation

R22: Harmful if swallowed

R36: Irritating to respiratory system

R51/53: Toxic to aquatic organisms

3. HAZARDS IDENTIFICATION

HUMAN HEALTH EFFECTS:

TANALITH®E is considered harmful..

MAIN SYMPTOMS:

Eye: Irritating to the eyes (R36)

Skin: Irritating to the skin (R38).

Ingestion: Harmful if swallowed (R22).

4. FIRST-AID MEASURES

SKIN CONTACT:

Remove contaminated clothing and shoes immediately. Wash affected area with large amounts of soap and water until no evidence of chemical remains (approximately 15 - 20 minutes). Get medical attention if irritation persists.

EYE CONTACT:

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes. Irrigate eyes thoroughly whilst lifting eyelids.

INGESTION:

If poisoning occurs, contact a doctor immediately. Do not induce vomiting, give 250 ml milk to drink followed by water, both sipped slowly. Seek medical advice immediately.

INHALATION:

Remove from exposure area to fresh air immediately. Keep warm and at rest, in a half upright position. Loosen clothing. Seek medical advice.

NOTES TO PHYSICIAN:

Treat Symptomatically.

5. FIRE-FIGHTING MEASURES

- Non-flammable
- In case of fire use water, foam, carbon dioxide or dry agent (S43)
- Do not use water jets
- Use appropriate containment to avoid environmental contamination (S57)
- Toxic fumes may be formed
- Wear positive-pressure breathing apparatus

SPECIFIC METHODS:

Isolate fire area. Evacuate downwind residents. Move containers from fire if possible. Cool fire exposed containers with water from side until well after fire is out. Apply fire-fighting media from as far a distance as possible, keep upwind. Dyke run off water for safe disposal.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Avoid skin and eye contact. Remove combustible material.

ENVIRONMENTAL PRECAUTIONS:

Prevent spread into drains and watercourses.

METHODS FOR CLEANING UP:

Stop leak if it can be done without risk. Place material into clean dry plastic container with a shovel and cover. For a large spill dyke ahead of spill. Absorb liquid mass with earth or sand. Place contaminated material into containers for later disposal. Isolate area and restrict entry.

7. HANDLING AND STORAGE PRECAUTIONS

HANDLING:

-Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)

STORAGE:

Store above 5°C

Do not store above 25°C

Keep away from food, drink and animal feedingstuffs (S13)

Store in original containers only.

Do not locate near or contaminate food or feed by storage or disposal.

PACKAGING MATERIAL:

TANALITH®E may only be stored in sealed polypropylene containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES:

Vacuum pressure treatment impregnation plants shall be designed and operated in accordance with relevant international and national codes of practice to minimise exposure of people to the product and treatment solution. Provide sufficient general and or local exhaust ventilation to control inhalation exposures below OSHA standards.

EXPOSURE LIMITS:

Copper Carbonate

- OES/LTEL # ppm (Cu mists) 1.0 mg/m³

2-aminethanol

- OES/LTEL 3.0 ppm 8.0 mg/m³

Di-2-ethylhexylphthalate

- OES/LTEL # ppm 5.0 mg/m³

EXPOSURE CONTROLS

Engineering controls should be provided which maintain airborne concentrations as low as practicable.

OCCUPATIONAL EXPOSURE XCONTROLS

Wear suitable protective clothing, including eye/face protection and gloves (nitrile as recommended)
In case of insufficient ventilation, wear suitable equipment (S38)

PERSONAL PROTECTIVE EQUIPMENT:

Use good occupational work practices. Avoid skin contact when handling solutions or freshly treated timber. Wear chemical resistant gloves and apron, overalls, work boots plus eye/face protection. Remove protective clothing and wash exposed skin with soap and water prior to eating, drinking, smoking or using the toilet facilities. Wash protective clothing separate from household clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: Liquid
COLOUR: Blue
ODOUR: Faint
pH: 9.2 (at 50g/litre solution in water)
DENSITY: S.G. 1,3
SOLUBILITY: Infinitely soluble in water
VISCOSITY 225 cps at 20°C
BOILING POINT 100°C approx.

10. STABILITY AND REACTIVITY

STABILITY: The material is stable under normal conditions. Sensitive to frost.
Avoid contact with Acid. Do not use empty containers for any other use.

HAZARDOUS REACTIONS:

Avoid contact/reaction with strong acids. Thermal decomposition products may generate ammonia and oxides of carbon in a fire situation.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

LD₅₀ (oral, rat) >740 mg/kg
LD₅₀ (skin, ratl) >2010 mg/kg
Irritation to eyes (rabbit): Positive
Irritation to skin (rabbit): Positive

MUTAGENICITY

Mutagenicity (Ames Test) : Negative

12. ECOLOGICAL INFORMATION

ECOTOXICITY

EC50 (Daphnia magna) reproduction (21 day) 0.203 mg/l (#hr)

PERSISTENCE:

The organic components are biodegraded in activated sludge processing plant.
Copper component will combine with soil humus and organic debris.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS

Refer to manufacturer/supplier for information on recovery/recycling (S59)
Do not discharge into drains or the environment, dispose to an authorized waste collection point.
Disposal should be in accordance with local, state and national legislation.
Do not use empty containers for any other use.

14. TRANSPORT INFORMATION

Proper Shipping name: 3010 Copper based pesticide liquid toxic (copper salts) 6.1, III ADR

EMERGENCY ACTION CODE:	2X
UN NUMBER:	3010
HAZARD CLASS	6.1
PACKING GROUP:	3
ROAD/RAIL (ADR/RID)	
ADR UN No.	3010
ADR HAZARD CLASS	6.1 III
SEA (IMDG)	
IMDG UN No.	3010
IMDG Hazard Class:	6.1
IMDG Page No.	147
IMDG Pack Group:	3
IMDG EmS	6.1-0.2
IMDG MFAG	

15. REGULATORY INFORMATION

HARMFUL

16. OTHER INFORMATION

This information is to the best of our knowledge and belief accurate and reliable. However, no representation or guarantee is made as to its accuracy, reliability or completeness. It relates to the specific material designated and may or may not be valid for such material used in combination with any other materials or in any process. All liability for any loss or damage that may occur from the use of this information is disclaimed. It is the users responsibility to satisfy himself from other sources that this material is suitable for his own particular use.

Date of last change 20th June, 2003.