

Tanalith® Ti

1.0 Description

Tanalith® Ti is an industrial use formulation for protection of timber against insect pests such as borers and termites. This product is approved for use in registered pressure treatment facilities, dip baths or spray units and is suitable for treatment of softwood and hardwood timbers to Hazard Level H2 below the Tropic of Capricorn as defined in AS1604.

2.0 Formulation

Active Constituent:	30 g/L Imidacloprid
Appearance:	Creamy white liquid.
Density :	1.012 g/ml @ 20°C
Flash Point:	not applicable
Vapour Pressure:	not applicable
Solubility in Water:	fully soluble
Octanol/water coefficient:	0.57 @ 21°C

3.0 Directions for Use

General

Tanalith® Ti must only be used in approved timber treatment facilities that have been designed for its use. For an assessment of your equipment, please contact Lonza Wood Protection.

Solution Preparation

Tanalith® Ti solution is prepared by diluting in water at the rates specified in the table below. Recirculation or mixing is recommended before use if the solution has been left to stand for more than 1 day.

Required Retention and Solution Strength

The strength of Tanalith® Ti treatment solution will depend on the treatment process being used and the timber commodities being treated. Please refer to "Table 1" on next page.

Treatment Processes

The treatment process used will depend on the timber species and sizes of the boards being treated. Lonza Wood Protection can advise details of suitable treatment schedules upon consultation with treatment plant management. Plant operation training can also be provided.

Timber Requirements

In order to achieve effective treatment the timber must be of an approved species, it is ideally dry (ie. < 15% mc), and should be treated in final shape and form and not be re-sawn or machined after treatment. Contact Lonza Wood Protection for further details.

Plant Requirements

The requirements for a particular plant will depend upon the quantities and types of timber commodities to be treated, the degree of automation desired and local authority requirements for environmental protection. The following is

recommended as necessary or highly desirable attributes in any plant design.

- The plant should comply with AS2843.
- If solvents are being used, the plant should comply with relevant legislation and standards controlling the storage and use of flammable and combustible liquids (ie. AS1940).
- The treatment, drip pad and timber storage areas should be fully covered and sealed.
- Secure facility for preservative receipt and storage.
- An automated PLC controlled plant is recommended.

Full details of plant equipment options, benefits and costs can be obtained from Lonza Wood Protection.

Post Treatment Timber Storage

Tanalith® Ti treated timber should be virtually surface dry and drip-free shortly after treatment. Immediately after treatment, the timber should be stored on a sealed under cover area with good air circulation. Depending on conditions, strip stacked timber should be fully dry of within a few days of treatment. Block stacked timber may remain 'wet' considerably longer, particularly inner boards. It is generally recommended that treated timber be held for at least 2 days before dispatch.

Handling Treated Timber

Timber treated with Tanalith® Ti RTU solution once dry after treatment can be handled as normal untreated timber. Tanalith® Ti does not affect the strength, moisture content, dimensional stability, corrosion potential or the flammability of the timber. The treatment may temporarily leave the timber with slight residual odour but this should not be a problem in normal circumstances. Timber treated with Tanalith® Ti should not be used for cooking. Off cuts and waste treated timber should be disposed through normal waste collection services.

Painting and Gluing

Painting, gluing and fixing of the timber can be done once the product has dried. Light sanding of the surfaces to be glued may improve adhesion. The paint or adhesive manufacturer's instructions should be followed at all times.

Special Additives

Tanalith® Ti can be tinted with colour additives. Colour additives can give the timber a better appearance as well as provide a differentiation against untreated timber or other treatments. Colour additives are not intended to provide long term colour fastness nor are they a substitute for painting or staining. The most common colour for this product is blue and is available in either 20kg pails or 1000litre IBC.

Quality Control

At present there is no simple in-plant test for solution quality control. Solution and treated timber samples should be sent periodically to a laboratory for confirmation of active constituent concentration. Contact Lonza for further details.

Mould Control

Depending on climatic conditions, the treating solution may become contaminated with mould from



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infected timber and spread this mould to other packs. Excessive contamination may also affect the preservative solution stability so it is recommended that treating solutions that are being used on infected timber or might be left unused for longer than a week, be protected with anti fungal additive. Additive type and dose rates are dependent upon individual circumstances, contact Lonza for further details.

4.0 Storage

Store in the original, tightly closed container in a secure well ventilated area away from exposure to direct sunlight. Stable in original container for twelve months. Dilution and use is recommended within three months.

If there is a spill, remove sources of ignition and move people from the immediate area. Confine the area of the spill with absorbent material such as sawdust or sand. Remove contaminated materials to appropriate containers for proper disposal.

5.0 Safety & Handling

UN Number: 3082
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Imidacloprid, Isothiazolinones)
Primary hazard: 9
Hazchem Code: •3Z
Packaging Group: III
IERG: 47
APVMA Approval No:
Registered: For use in all states of Australia.
SUSMP:

Avoid all personal contact with the product including inhalation of vapours. When handling the solution, protect the eyes by using a face shield or goggles. Wear full length cotton overalls, elbow length PVC gloves and impervious footwear. If ventilation is not sufficient to keep constituents below the exposure limits, wear a respirator with organic vapour filter cartridges. After use and at the end of work, wash hands, arms and face before eating, drinking, smoking or using toilet facilities. Launder protective clothing and equipment separately from household laundry.

6.0 First Aid

IF SWALLOWED: rinse mouth. Call a POISON CENTRE or doctor/physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor /physician.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

Call a POISON CENTRE or doctor/physician if you feel unwell.

IF exposed or concerned or if you feel unwell: Call a POISON CENTRE or doctor /physician.

If skin irritation or rash occurs: Get medical advice/attention.
In case of fire: Use alcohol resistant foam (preferred) or normal foam for extinction.

Wash contaminated clothing before reuse.

7.0 Spillage

Remove non-essential personnel from the area and ensure adequate ventilation. Spills may be slippery and should be cleaned up immediately. If the spill has occurred outside of the bunded control area, alert Emergency Services. If it is safe to do so, stop the leak and prevent spillage from entering waterways, drains, sewers or dams. Contain or absorb spill with suitable absorbent such as sawdust, sand, earth or vermiculite. Recover as much material as possible into suitable containers for recycling or disposal. Collect solid residues and seal into labelled containers for disposal.

The product is toxic to fish and wildlife. Do not contaminate dams, ponds, water ways or drains with the product, used containers or equipment. Plants using Tanalith® Ti should be designed for zero discharge of the active constituents.

8.0 Packaging

Drums 20 L Steel
Drums: 200 L Steel
IBC: 1000L
Drums are non-returnable unless otherwise agreed

9.0 Disposal of Empty Containers

All containers should be triple rinsed with water, and be crushed or punctured to prevent re-use. Disposal of drums and contaminated absorbent soils, clothing or debris may be permitted into local tip after approval from the local authority.

In case of chemical emergency contact:

Emergency Services - 000
Lonza Emergency Response - 1800 796637

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