

DIFFUSOL®

1.0 Description

1.1 Constituents

Boron (as boric acid equivalent or BAE):	46.4% w/v
Octhilinone:	0.1%w/v
Inert ingredients:	Balance

1.2 Formulation Liquid crystalline suspension

1.3 Appearance Creamy white fluid

1.4 Density 1.20 g/mL @ 20°C

2.0 Function

Diffusol® is a boron based preservative intended for application to sawn timber by pressure treatment to meet NZS 3640 requirements for hazard classes H1.1 & H1.2. Diffusol® may also be used to treat Radiata pine timber to hazard class H2 under AS1604.1. Contact Lonza for further details.

3.0 Directions for Use

3.1 Preparation of Treatment Solution

Thoroughly mix the Diffusol® concentrate before decanting. The concentrate should be diluted with water to the required concentration. Typical solution strengths used are (for H1.2);

Pressure treatment of green pine: 5 - 10% w/v BAE

Pressure treatment of dry pine: 0.4 – 1.0% w/v BAE

Dip diffusion of green pine: 10 – 13% w/v BAE

Your Lonza representative can advise on the most appropriate concentration to use for the application method, treatment process, timber commodity and end-use. No heat is required or recommended during any stage of the preparation or use of Diffusol® solutions.

3.2 Application to Timber

Dip diffusion:

Timber must be in green off saw condition; ensure minimal delays between felling, sawing and dipping. Immerse timber (either in single boards or packet form) in the Diffusol® solution and ensure all surfaces are fully wetted (30 sec to 1 min is sufficient). Place timber on a drip- pad until drip-free, and return drips to the working solution.

Softwood timber thicker than 50 mm and hardwood timber of all sizes should be dipped twice, with a seven day delay between dips during which the timber is stored as below. Place dipped timber in diffusion storage for 5 - 7 weeks; conditions must be maintained to prevent moisture loss from timber during this time, normally using close fitting tarpaulins. Holding the timber at elevated temperature after treatment may accelerate diffusion time.

Pressure Treatment

Timber to be treated may be green, steam conditioned or dried (<30% moisture content). Steamed or air-dried timber is treated in a conventional vacuum/pressure treatment plant and may be released for sale immediately the timber becomes drip-free. Green timber is also treated in a vacuum/pressure plant; however it must be allowed to diffuse for up to three weeks prior to being released for sale. Lonza can advise on the details of treatment schedules and concentrations for all the above processes.

3.3 Other Recommendations

Sawdust or shavings from Diffusol™ treated timber may be disposed of by incineration. It is recommended that treated shavings are not used for animal bedding. Do not mix other chemicals with Diffusol™ except on the advice of Lonza.

4.0 Safety and Handling

4.1 Handling the Product

Appropriate personal protection such as overalls, boots and gloves should be worn at all times when handling solutions or freshly-treated wood, plus eye protection if there is a risk of splashing. Wash hands after handling and before eating drinking or smoking.

4.2 Safety and First Aid

In case of eye contact, flush eyes with water for at least 15 minutes. In case of skin contact, wash with soap and water. If swallowed, induce vomiting and contact a doctor or the Poisons Centre. Consult MSDS for further information.



DIFFUSOL®

5.0 Transport and Storage

5.1 Transport

UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S. (contains octhiline). DG Class 9 – Packaging Group III.

5.2 Storage

Store in correctly labelled containers in a secure, bunded compound. Protect product and solutions from frost.

5.3 Spills and Disposal

Contain spillage and recover liquid into suitable containers for re-use or disposal. Absorb residue with sawdust or other absorbent. Dispose of absorbent and waste solution to an approved landfill.

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