

## Diffusol®

### 1.0 Description

Diffusol® is a boron formulation for the treatment of sawn timber by either dip diffusion or pressure impregnation to meet AS1604 requirements for Hazard Class H1.

### 2.0 Formulation

Active Constituents: Boric Acid Equivalent (BAE)

	11g/L 2-n-octyl-4-isothiazolin-3-one
Solvent:	Water
Formulation:	Liquid crystalline suspension
Appearance:	Thick white liquid
Odour:	Slight metallic odour
Solubility:	Forms a suspension in water
Density:	1.20 g/ml @ 20°C
Viscosity:	500 cps @ 20°C
pH:	8.0 + 0.5 @ 20°C

### 3.0 Directions for Use

Dip Diffusion:

As timber must be in the 'green-off-saw' condition, ensure that there is minimal delay between felling, sawing and dipping. Immerse timber (single boards or as a pack) in the dilute Diffusol® solution and ensure all surfaces are fully wetted. An immersion of 1 - 10 minutes should be sufficient. Place timber on a drip-pad until drip-free and return collected drip to the working solution.

Softwood and hardwood timber greater than 50mm thickness should be dipped twice, with a seven day delay between dips during which time the timber should be stored as follows.

Place dipped timber in diffusion storage for 5 - 10 weeks.

Conditions must be maintained to prevent moisture loss (drying) from timber during this time. Normal practice uses close fitting tarpaulins, heavy duty black plastic wrap and roofed storage areas.

Pressure Impregnation:

Timber to be treated may be green, steam conditioned or dried (<30% moisture content). Timber is treated in a conventional vacuum/pressure treatment plant, however it must be allowed to diffuse for up to three weeks prior to being released for sale.

This should be accomplished as described in the previous section. Lonza can advise on the details of treatment schedules and concentration for all the above processes. Diffusol® concentrates should be mixed with water to the required solution strength with vigorous agitation (ie. through the suction line of a pump). Typical solution strengths used are:

- dip diffusion 9.0 - 13.0% w/v BAE
- pressure treatment 0.5 - 4.5% w/v BAE

### 4.0 Storage

Store in the original container in a cool, dry place with the lid firmly closed. Protect from direct sunlight and from frost. Do not re-use empty containers for any other use.

### 5.0 Safety & Handling

UN Number:	3082
Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Isothiazolinones)
Primary hazard:	9
Hazchem Code:	*3Z
Packaging Group:	III
IERG:	47
APVMA Approval No:	46927/01
Registered:	For use in all states of Australia.
SUSMP:	Poison schedule S5.

### 6.0 First Aid

If poisoning occurs, contact doctor or Poisons Information Centre immediately. If swallowed, and more than 15 minutes from a hospital, induce vomiting preferably using saline solution. If eye contact occurs, hold eyes open and flush with water for 15 minutes. Remove contact lenses before flushing. If skin contact occurs remove contaminated clothing and wash affected area with soap and water. If product is inhaled remove person to fresh air: monitor breathing. If breathing has stopped administer artificial respiration: seek medical assistance.

### 7.0 Spillage

If possible wash spilt product into plant sump for use in treatment solutions. Otherwise absorb spill with inert material such as sand or sawdust. Do not flush spill into sewage lines or storm water drains. Collect all contaminated solids into corrosion proof drums for storage until disposal.

The product is toxic to fish and wildlife. Do not pour the product down drains, sewers or into streams, dams, ponds or other waterways.

Advise relevant authorities and dispose in accordance with local regulations.

### 8.0 Packaging

20L high density polyethylene pails  
200L high density polyethylene drums  
Drums are non-returnable unless otherwise agreed



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#### 9.0 Stability

The concentrate is stable at all temperatures encountered in practice. Both concentrate and dilute solution can be thawed and used should freezing occur.

In the event of fire, keep containers cool with water spray. The product is not flammable, however exposure to intense heat may build up pressure in container and generate fumes. Fire fighters should use full self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers.

#### 10.0 Mixing

A 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 when mixing or using Diffusol®.

#### In case of chemical emergency contact:

**Emergency Services - 000**  
**LONZA Emergency Response - 1800 796637**

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