

MATERIAL SAFETY DATA SHEET

GLYBOR 300

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: GLYBOR 300
Product type: Borate-based wood preservative liquid
Supplier: **TIMBERLIFE (PTY) LTD**
P.O. Box 73117, Lynnwood Ridge 0040, South Africa
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2. COMPOSITION / INFORMATION ON INGREDIENTS

GLYBOR 300 is a penetrating fungicidal and insecticidal surface treatment for preserving new and existing timbers.

Chemical nature and use: A ready-for-use, glycol-based solution that is formulated as a surface treatment for preserving untreated and difficult to treat timbers, whether new or existing, e.g. joinery, roof and floor timbers, pole structures, etc. It contains borate wood preserving active ingredients that provide protection against fungal decay and insect attack. The unique formulation ensures minimal evaporation whilst allowing for maximum penetration of the active borate component into all types of uncoated timber, irrespective of the wood moisture content.

GLYBOR 300 provides a colourless, odourless, non-flammable treatment of wide spectrum fungicidal and insecticidal activity with the exceptional advantage of being of very low mammalian toxicity. It is an easy to apply surface treatment and can be overcoated with wood coatings/finishes after adequate drying.

**Active ingredient content
(expressed as boric acid
equivalent):** H₃BO₃ 300 g/l (min)

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3. HAZARD IDENTIFICATION

In terms of the South African Department of Agriculture Act 36 of 1947, borate-based wood preservatives are classified as toxicity group IV products, i.e. "Acute hazard unlikely in normal use".

Most important hazards:

- Human health effects
 - Harmful if swallowed
 - Only irritating to damaged skin
 - Moderately irritating to eyes
 - May irritate nose, throat and lungs if vapours are inhaled.

- Environmental effects
 - Moderately toxic to both plant and aquatic life

- Physical hazards
 - None
 - (Non-flammable and non-explosive during storage and use).

4. FIRST-AID MEASURES

Ingestion:

First wash out mouth with water and then give large amounts of water to dilute the substance. **Do not** induce vomiting. If vomiting occurs, keep head below hips to prevent the patient from swallowing it or choking on it. Obtain medical attention.

Skin contact:

Wash away with plenty of water.

Eye contact:

Wash immediately with plenty of clean water for at least 5 minutes, occasionally lifting upper and lower eye lids.

Inhalation:

Remove the patient to fresh air. If respiratory distress is detected, seek medical attention immediately.

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5. FIRE-FIGHTING MEASURES

No special precautions are necessary.

Any fire extinguisher may be used on nearby fires.

(Inorganic borates are non-flammable and non-explosive).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid inhalation of vapours during spray application and contact with eyes and damaged skin.

Environmental precautions:

Avoid contamination of rivers, dams or canals.
Prevent spillage from entering drains and ditches.

Methods for cleaning up:

For liquid spills, block drains and contain with sandbags, etc. Bail out any pools of solution into clean, dry containers and remove from spill area for re-use if not contaminated.

7. HANDLING AND STORAGE

Handling:

No special handling precautions are required

In case of contact with the skin and eyes, immediately wash with water.

Do not eat, drink or smoke while using the product.

Do not discharge into rivers, dams and canals.

Storage:

Store in a cool, dry place away from food and foodstuffs.
No further special precautions are necessary.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

No special precautions are necessary.

Personal protective equipment:

When spraying the product, an appropriate respirator should be worn.

The use of protective clothing such as overalls, rubber gloves and safety goggles during handling and use of the product is recommended.

Hygiene measures:

Wash hands before eating drinking or smoking.

Wash overalls and clothes regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Slightly viscous liquid
Colour	:	Water white, transparent
Odour	:	None to mild
pH	:	7,5 to 8,0
Temperature stability	:	Completely stable at temperatures of up to 90°C (May become less viscous)
Flash point	:	Over 200°C
Flammability	:	Non-flammable
Decomposition temperature	:	None (Active ingredients)
Auto ignition temperature	:	None
Explosion properties	:	None
Density	:	1,2kg/ℓ
Solubility	:	Completely soluble in water
Water-insoluble matter	:	Less than 5g/kg

10. STABILITY AND REACTIVITY

Stability	:	Stable if kept in unopened containers
Conditions to avoid	:	High temperatures
Materials to avoid	:	Strong oxidising agents and reducing agents such as metal hydrides and alkali metals.
Hazardous decomposition products	:	Carbon monoxide, carbon dioxide and other organic compounds

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11. TOXICOLOGICAL INFORMATION

- Acute toxicity** : • Oral LD₅₀ (rat) - Over 2000 mg/kg
• Dermal LD₅₀ (rabbit) - Over 2000mg/kg
• Inhalation LC₅₀ (rat) - Over 5mg/ℓ
- Local effects** : See Section 3, "Human health effects"
GLYBOR 300 is not a skin sensitiser
- Chronic toxicity** : No evidence of carcinogenic or mutagenic effects
Reproductive and developmental toxicity was only noted in cases where laboratory animals were fed large doses of borates over prolonged periods

12. ECOLOGICAL INFORMATION

- Environmental effects** : See Section 3, "Environmental effects"
- Mobility** : Inorganic borates are water soluble and will be dispersed in soil, the rate of which will depend on the soil type, the soil moisture content and the amount and concentration of the spill.
- Degradability** : Decomposes in the environment to natural borate.
- Bioaccumulation** : Inorganic borates are absorbed by plants and are used as a micronutrient for healthy growth. Large quantities can be phytotoxic.
- Ecotoxicity** : Moderately toxic to both plant and aquatic life. (For rainbow trout, the 96-hour LC₅₀ value ranges from 9000 to 14000 ppm).

13. DISPOSAL CONSIDERATIONS

- Product waste** : Dispose of in accordance with prevailing disposal regulations, preferably by a competent waste disposal company. Avoid contamination of soil and water by waste product. Whenever possible, any waste product should be recovered and re-used.
- Treated timber waste** : Dispose of in an approved landfill. Burning may be carried out in non-residential areas and ash disposed of in an approved landfill.
- Packaging material** : Dispose of at an approved waste disposal facility.

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14. TRANSPORT INFORMATION

Borates are classified as non-hazardous substances and no special precautionary transport measures are necessary.

(The European Communities' Directive on the Classification, Packaging and Labelling of Dangerous Substances classifies substances with a median lethal dose (acute oral toxicity in the rat, LD₅₀) of greater than 2000 mg/kg bodyweight, as not dangerous).

UN Number	: N/A
Hazchem Code	: 1 [T]
EAC	: 0
IMDG Code	: N/A
IMDG Packaging Code	: N/A
Marine Pollutant	: No
Class	: N/A
Subsidiary Risks	: N/A
Tremcard Number	: N/A

15. REGULATORY INFORMATION

EEC Hazard Classification : N/A

Compliance with the following regulations must be adhered to:

- Water Act 54 of 1956.
- Health Act 63 of 1977.
- Environmental Conservation Act 73 of 1989.
- Hazardous Substances Act of 1993.
- Provincial Ordinances and Local By-laws.

16. OTHER INFORMATION

Please consult the product label before use.

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product.

Compiled: January 2007