



MATERIAL SAFETY DATA SHEET

Blupro ADZ

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Blupro ADZ
Product type: Anti-sapstain / anti-mould treatment for TOPRO 94 (borate) and Flambor – treated timber
Supplier: **TIMBERLIFE (PTY) LTD**
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Blupro ADZ is a highly concentrated water-dispersible mixture of fungicides/mouldicides consisting of an organosulphur compound and dicyanotetrachlorobenzene.

Chemical nature and use:

Blupro ADZ is a highly concentrated water-dispersible liquid formulation that contains active ingredients to prevent development of sapstain fungi and mould growth on TOPRO 94 – treated timber during diffusion storage. It is generally applied to TOPRO 94 – treated timber before diffusion storage and preferably within 12 hours after dip treatment.

Blupro ADZ is also used as an additive to TOPRO 94 (borate) and FLAMBOR working solutions which are applied by pressure impregnation to ensure that the treated timber remains free from mould growth and fungal discolouration during transport, storage and use.

Pesticidal active ingredients:

2 – (thiocyanomethylthio) benzothiazole (Organosulphur compound)....207 g a.i./ℓ (min)
Dicyanotetrachlorobenzene.....178 g a.i./ℓ (min)

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3. HAZARD IDENTIFICATION

Most important hazards:

- Human health effects

Toxic if ingested
May cause moderate to severe irritation to skin
May cause moderate to severe irritation and is harmful to eyes
Irritating and moderately toxic by inhalation.
- Environmental effects

Toxic to both plant and aquatic life
- Physical hazards

Thermal decomposition results in release of toxic fumes.

4. FIRST-AID MEASURES

Ingestion:

Seek medical attention immediately. Do not induce vomiting. Drink lots of milk or water to dilute. If vomiting occurs, drink more water. Note: Do not give anything orally to an unconscious person.

Skin contact:

Immediately remove all contaminated clothing and wash with soap and water. If irritation develops and persists, seek medical attention.

Eye contact:

Immediately flush with fresh water for at least 15 minutes. Seek medical attention immediately. Continue flushing for another 15 minutes if medical attention does not arrive promptly.

Inhalation:

Remove patient to fresh air. Administer oxygen if necessary. If patient stops breathing administer artificial respiration. Seek medical attention immediately.

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5. FIRE-FIGHTING MEASURES

Extinguishing media:

In event of a fire, cool containers with water.

Use dry chemical powder, sand, foam or CO₂ to extinguish the fire.

Flammability:

The product is not flammable.

Specific hazards:

May release irritating and toxic gases when exposed to high temperatures. Product may decompose if heated above 60°C.

Protective clothing:

Self contained breathing apparatus. PVC gloves. Cotton or polyester overalls. Safety glasses or goggles.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear gloves, safety glasses or splash-proof goggles and cotton or polyester overalls. In confined spaces wear respiratory equipment.

Environmental precautions:

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

Methods for cleaning up:

Absorb or dike with inert material such as sand or diatomaceous earth. Then dispose of at a class 1 disposal site.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes and skin.

Avoid inhalation of spray and vapour.

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Wear suitable gloves and overalls.

Wear eye face protection.

After contact with the skin and eyes, immediately wash with soap and water.

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

Do not discharge into rivers, dams and canals.

Storage:

Keep out of reach of children, uninformed persons, and animals.

Do not store near strong oxidising agents and alkalis. Keep containers closed.

Store in a cool, dry place away from food and foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit : TLV/TWA : 500 ppm (ACGIH) calculated.

Personal protective equipment:

Wear suitable protective clothing such as overalls, rubber gloves and safety goggles during handling and use of the product.

In confined spaces the use of approved respiratory equipment for protection from mists of pesticides is recommended.

Hygiene measures:

Wash hands with soap and water before eating, drinking or smoking.

Wash overalls and clothes regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Concentrated liquid
Colour	:	Light brown to greyish white
Odour	:	Slightly pungent
pH	:	5,5 to 6,5
Temperature stability	:	Stable at temperatures of up to 60°C
Melting point	:	Start crystallizing at low temperatures

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Decomposition temperature	:	Above 60°C
Flammability	:	Non flammable
Explosion properties	:	None
Flash point	:	Not applicable
Density @ 20EC	:	1,13 kg/l
Solubility	:	Dispersible in water

10. STABILITY AND REACTIVITY

Stability	:	Stable in neutral and acidic media
Conditions to avoid	:	Elevated temperatures
Materials to avoid	:	Strong oxidants
Hazardous decomposition products	:	Toxic fumes of SO _x , CN ⁻ , Cl ⁻ and NO _x may be evolved on combination if heated above 60°C

11. TOXICOLOGICAL INFORMATION

The following information is based on the most toxic active ingredient. The actual formulation should therefore have lower overall toxicity levels.

Acute toxicity	:	<ul style="list-style-type: none">• Oral LD₅₀ (rat) - Over 1590 mg/kg• Dermal LD₅₀ (rabbit) - Over 2000 mg/kg• Inhalation LC₅₀ (rat) - No data available. Irritating to mucous membrane and respiratory tract.
Local effects	:	See Section 3, "Human health effects"
Chronic toxicity	:	No evidence of carcinogenic or mutagenic effects. May cause asthma (inhalation over a long period) or dermatitis (if absorbed by the skin over a long period).

12. ECOLOGICAL INFORMATION

Environmental effects	:	See Section 3, "Environmental effects"
Mobility	:	No information available.
Degradability	:	Practically biodegradable but has a bactericidal effect.
Bioaccumulation	:	Due to biodegradation and recommended application rates, it is unlikely that bioaccumulation will attain levels of environmental significance.

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The following information is based on the most toxic active ingredient. The actual formulation should therefore have lower overall ecotoxicity levels.

Ecotoxicity	:	Birds: Toxic to birds (data for technical material) Acute oral LD ₅₀ : > 1310 mg/kg (mallard ducks)
		Fish: Toxic to fish 96 - Hour LC ₅₀ : 117 µg/l (rainbow trout)
		Daphnia: Toxic to <i>Daphnia magna</i> 48 - Hour LC ₅₀ : 70 µg/l
		Marine organisms: Toxic to marine organisms (data for technical material) 96 - Hour LC ₅₀ : 21 µg/l (Mysid shrimp) : 60 µg/l (Sleephead minnows)

13. DISPOSAL CONSIDERATIONS

Product waste	:	Dispose of in accordance with prevailing disposal regulations. Avoid contamination of soil and water by waste product. Whenever possible, any waste product should be recovered and re-used.
Packaging material	:	Do not re-use containers. Puncture all plastic containers. Flatten all metal containers.

14. TRANSPORT INFORMATION

UN Number	:	2810 (2 – (thiocyanomethylthio) benzothiazole) 2902 (Dicyanotetrachlorobenzene)
ADR / RID	:	6.1 Subsidiary Risk 8
IMDG / IMO	:	6.1 Subsidiary Risk 8
ICAO / IATA	:	6.1 Subsidiary Risk 8
Packaging Group	:	III
Road/Rail	:	Pesticide, liquid, toxic.
Air / IATA	:	Pesticide, liquid, toxic.
Sea	:	Pesticide, liquid, toxic. Marine pollutant.

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15. REGULATORY INFORMATION

Danger Group : II / III

Indication of danger : Harmful, Irritant.

Risk phrase(s):

R 20/22 : Harmful by inhalation and if swallowed,
R 36/37/38 Irritating to eyes, respiratory system and skin.

R 41 : Risk of serious damage to eyes.

R 43 : May cause sensitisation by skin contact.

R 50 : Toxic to aquatic organisms.

Safety phrases:

S 2 : Keep out of reach of children.

S 23 : Do not breathe vapour/spray.

S 24/25 : Avoid contact with skin and eyes.

S 36/37/38 : Wear suitable protective clothing, gloves and
eye/face protection.

16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product.

Compiled: September 2002