



OKADA ECOTECH PTE LTD (REG NO 199805584M)

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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name **BIOVECTROL® 500WS**
Active Ingredient Neem Extracts, Azadirachtins (AZA)

SECTION II: COMPOSITION

<u>Component</u>	<u>%w/w</u>
Neem Extracts	30.0
Inert Ingredients & Surfactants	70.0

SECTION III: HAZARDS IDENTIFICATIONS

Skin contact non irritating (Rabbit)
Eye contact non irritating (Rabbit)
Skin sensitization Not a sensitizer (Guinea pig)
Carcinogenicity Not likely to be carcinogenic to humans

SECTION IV: EMERGENCY & FIRST AID PROCEDURE

Eye Contact : Flush eye immediately with steady running water for at least 15 mins
Skin Contact : Immediately wash with soap & water
Inhalation : Remove victims from area of exposure and move to fresh air
Ingestion : Drink plenty of water. Do not induce vomiting

NOTE TO PHYSICIAN
Treat symptomatically

SECTION V: FIRE & EXPLOSION HAZARD DATA

Flash point: Not applicable (non-flammable)
Extinguishing Media: Not applicable
Special Fire Fighting Procedure: Not applicable
Unusual Fire & Explosion Hazards: Not applicable

SECTION VI: SPILL OR LEAKAGE

STEP TO BE TAKE IN CASE MATERIAL IS RELEASED OR SPILLED.
Hose off road surfaces to prevent accident or slippery surface.

SECTION VII: HANDLING & STORAGE

Keep out of reach of children. Keep container closed when not in use.
Store in a cool, dry place, away from direct sunlight and high temperature.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Ventilation Requirements: General ventilation is adequate
Respiratory Protection: None normally required
Protective Gloves: None normally required
Eye Protection: None normally required

SECTION IX: PHYSICAL /CHEMICAL CHARACTERISTIC

Appearance: Dark Brown Liquid
Odor: Sweet, pleasant odor
pH at 30 deg C: NA
Dispersibility in water: Completely soluble in water
Viscosity (BF/LVT/#1/100rpm/30deg C): 45 ± 25 cps
Specific Gravity: 1.10 ± 0.1

SECTION X: STABILITY & REACTIVITY DATA

Stability: Stable
Hazardous Decomposition Products: Oxides of carbon. Decomposition is very unlikely.
Hazardous Polymerization: Will not occur
Materials to Avoid: Acids
Conditions to Avoid: Excessive heat & prolong sunshine

SECTON XI: TOXICOLOGICAL INFORMATION

Acute Toxicity
Ingestion LD₅₀ > 2,000mg/kg (OECD 420)
Inhalation LC₅₀ > 4.11mg/l air
Dermal Absorption LD₅₀ > 5,000mg/kg (OECD 434 Draft)

SECTION XII: ECOLOGICAL INFORMATION

- 1) Effect on Earthworm(LC50) - >1000mg/kg-safe
- 2) Effect on predators - Harmless
- 3) Hazard to soil Microflora - Non hazardous

- 4) Acute Daphnia Immobilisation
Test (EC 50) - >1000mg/ltr-safe
NOEL -197.5 mg/ltr
- 5) Acute toxicity to fish-Rainbow
Trout(LC50) - 440mg/ltr(24hrs)
- 150mg/ltr(96hrs)
NOEC - 50mg/ltr
- 6) Algal Inhibition Test - Non inhibitory/Non Stimulant
NOEC - 22mg/ltr
- 7) Metabolism in soil - Rapid Decomposition in soil
- 8) Degradability in water - Readily Biodegradable in water

SECTION XIII: WASTE DISPOSAL METHOD

WASTE DISPOSAL METHOD

Collect and dispose in sewage system if local authorities permit.

SECTION XIV: TRANSPORTATION INFORMATION

SHIPPING INFORMATION: D.O.T. Not Regulated

SECTION XV: NATIONAL REGULATION AND REFERENCE

Registered with Agri-Food & Veterinary Authority of Singapore under Section 14 of the Control of Plants Act (Chapter 57A)
Registration Number: AVA14006OAK

EC Regulation 2092/91 - ECOCERT CERTIFICATION
(ECOCERT INTERNATIONAL)

Is allowed to be used as an input for his/her organic operation

SECTION XVI: OTHER INFORMATION

None