



# 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):  $45 \pm 25$  cps  
Specific Gravity:  $1.10 \pm 0.1$

## **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 LD<sub>50</sub> > 2,000mg/kg (OECD 420)  
Inhalation LC<sub>50</sub> > 4.11mg/l air  
Dermal Absorption LD<sub>50</sub> > 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