



OKADA ECOTECH PTE LTD (REG NO 199805584M)

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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name **BIOVECTROL® 6kEC**
Active Ingredient **Neem Extracts, Azadirachtin (AZA)**

SECTION II: COMPOSITION

<u>Component</u>	<u>%w/w</u>
Neem Extracts	5.0
Inert Ingredients & Surfactants	95.0

SECTION III: HEALTH DATA/TOXICOLOGY INFORMATION

Acute Toxicity/irritation studies

Ingestion $LD_{50} > 5,000 \text{ mg/kg}$ (OECD 420)
Inhalation $LC_{50} > 2.11 \text{ mg/l air}$
Dermal Absorption $LD_{50}(\text{rat}) > 5,000 \text{ mg/kg}$ (OECD 402)
Skin contact non irritating (Rabbit)
Eye contact non irritating (Rabbit)
Skin sensitization Not a sensitizer (Guinea pig)

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 TAKEN 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:	Garlic like odor
pH at 30 deg C:	NA
Dispersibility in water:	Completely dispersible
Viscosity (BF/LVT/#1/100rpm/30deg C):	45 ± 20 cps
Specific Gravity:	0.95 ± 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

SECTION XI: ECOLOGICAL INFORMATION

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|-----------------------------------|----------------------------------|
| 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 XII: WASTE DISPOSAL METHOD

WASTE DISPOSAL METHOD

Collect and dispose in sewage system if local authorities permit.

SECTION XIII: TRANSPORTATION INFORMATION

SHIPPING INFORMATION: D.O.T. Not Regulated

SECTION XV: NATIONAL REGULATIONS AND REFERENCES

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

Registration Number: AVA14005OAK

SECTION XVI: OTHER INFORMATION

None