



OKADA ECOTECH PTE LTD (REG NO 199805584M)

24 Pioneer Crescent, #04-08,
West Park Bizcentral, Singapore 628557.
Tel.: (65) 6872 3515 Fax: (65) 6872 6558
Website: www.okada-ecotech.com

MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name: **BIOVECTROL® 612EC**
Active Ingredient: Etofenprox
Chemical Name: 2-(4-ethoxyphenyl)-2-methylpropyl-3-phenoxybenzyl ether
Chemical Formula: Aryl-propyl benzyl ether

SECTION II: COMPOSITION

<u>Component</u>	<u>%W/W</u>
Etofenprox	12.0
Neems Extract	5.0
Inert Ingredients & Surfactants	83.0

SECTION III: HAZARDS IDENTIFICATIONS

Skin contact: Non-irritating (Rabbit)
Eye contact: Non-irritating (Rabbit)
Skin sensitization: Non-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:	Clear Brown Liquid
Odor:	Pleasant
pH at 25 deg C:	NA
Dispersibility in water:	Completely dispersible
Viscosity (BF/LVT/#1/100rpm/30deg C):	30 \pm 20 cps
Specific Gravity:	1.0 \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

SECTION XI: TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion: LD₅₀ > 2,000mg/kg (OECD 420)
Inhalation: LC₅₀ > 5,900mg/m³ air
Dermal Absorption: LD_{50(rat)} > 2,000mg/kg (OECD Guideline 434)

SECTION XII: ECOLOGICAL INFORMATION

Wildlife & Fish

(a) Mallard Duck LD₅₀ (oral) >2,000mg/kg

(b) Aquatic Animals

Species:	TL _m value (ug/L, 48 hrs)
Carp	> 5,000
Goldfish	> 1,730
Ayu Fish	> 1,200
Water Flea	> 40,000 (3hrs)
Short-necked Clam	> 490,000

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 REGULATIONS AND REFERENCES

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

Registration Number : AVA14007OAOK

SECTION XVI: OTHER INFORMATION

For Professional Use Only