



# OKADA ECOTECH PTE LTD (REG NO 199805584M)

55 Ayer Rajah Crescent, #03-19/23,  
Singapore 139949.  
Tel.: (65) 6872 3515 Fax: (65) 6872 6558  
www.okada-ecotech.com

## MATERIAL SAFETY DATA SHEET

### SECTION I: PRODUCT IDENTIFICATION

Product Name: **BIOVECTROL® 20EM**  
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	20.0
Inert Ingredients	80.0

### 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 ± 20 cps
Specific Gravity:	1.0 ± 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: LD<sub>50</sub> > 2,000mg/kg (OECD 420)

Inhalation: LC<sub>50</sub> > 5,900mg/m<sup>3</sup> air

Dermal Absorption: LD<sub>50(rat)</sub> >2,000mg/kg (OECD Guideline 434)

## **SECTION XII: ECOLOGICAL INFORMATION**

### Wildlife & Fish

(a) Mallard Duck LD<sub>50</sub> (oral) >2,000mg/kg

(b) Aquatic Animals

Species: TL<sub>m</sub> 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 National Environment Agency, Singapore under Section 8 of the Control of Vectors and Pesticides Act 1998.

Registration Number: SINNEAI-EmICN/003/0334

## **SECTION XVI: OTHER INFORMATION**

For Professional Use Only