



OKADA ECOTECH PTE LTD (REG NO 199805584M)

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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name **BIOVECTROL® 20EW**
Active Ingredient Etofenprox

SECTION II: COMPOSITION

<u>Component</u>	<u>%w/w</u>
Etofenprox	20.0
Inert Ingredients & Surfactants	80.0

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 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:	Milky white aqueous emulsion
Odor:	Pleasant
pH at 25 deg C:	6.50 \pm 1.0
Dispersibility in water:	Completely dispersible
Viscosity (BF/LVT/#1/00rpm/30deg C):	30 \pm 15 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 > 10,000mg/kg
Inhalation LC₅₀ > 5,900mg/m³ air
Dermal Absorption LD_{50(rat)} > 5,000mg/kg

SECTION XII: ECOLOGICAL INFORMATION

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|-----------------------------------|----------------------------------|
| 1) Effect on Honey Bees | - Harmless |
| 2) Effect on Earthworm (LC50) | - >1000mg/kg-safe |
| 3) Effect on predators | - Harmless |
| 4) Hazard to soil Microflora | - Non hazardous |
| 5) Acute Daphnia Immobilization | |
| Test (EC 50) | - >1000mg/ltr-safe |
| NOEL | - 197.5 mg/ltr |
| 6) Acute toxicity to fish-Rainbow | |
| Trout (LC50) | - 440mg/ltr (24hrs) |
| | - 150mg/ltr (96hrs) |
| NOEC | - 50mg/ltr |
| 7) Algal Inhibition Test | - Non inhibitory/Non Stimulant |
| NOEC | - 22mg/ltr |
| 8) Metabolism in soil | - Rapid Decomposition in soil |
| 9) 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 REGULATIONS AND REFERENCES

Registered with National Environment Agency, Singapore under
Section 8 of The Control of Vectors And Pesticides Act 1998

Registration Number : SINENVI-OilEW/003/0005

SECTION XVI: OTHER INFORMATION

For Professional Use Only