



OKADA ECOTECH PTE LTD

(REG NO 199805584M)

55 Ayer Rajah Crescent, #03-19/23

Singapore 139949.

Tel : (65) 6872 3515 Fax : (65) 6872 6558

MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name **BV 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 (nonflammable)
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

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

None