

OKADA ECOTECH PTE LTD (REG NO 199805584M)

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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name BIO-X® Q'BUG

Active Ingredient Etofenprox (technical)

Chemical Name 2-(4-ethoxyphenyl)-2-methylpropyl-3-phenoxybenzyl ether

SECTION II: COMPOSITION

<u>Component</u> <u>%w/w</u>

Etofenprox 1.10 Inert Ingredients 98.90

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:

Special Fire Fighting Procedure:

Unusual Fire & Explosion Hazards:

Not applicable

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:
Protective Gloves:

None normally required
None normally required
None normally required

SECTION IX: PHYSICAL /CHEMICAL CHARACTERISTIC

Appearance: Milky white aqueous emulsion

Odor: Pleasant

pH at 25 deg C: 7.0 ± 1.0

Dispersibility in water: Completely dispersible

Viscosity (BF/LVT/#1/100rpm/30deg C): 4-6 cps

Specific Gravity: 1.0 + 0.05

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 $LD_{50} > 2,000$ mg/kg (OECD 420)

Inhalation LC₅₀> 5,900mg/m³ air

Dermal Absorption $LD_{50} > 2,000 \text{mg/kg}$ (OECD 402)

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 REGULATION AND REFERENCE

Not Applicable

SECTION XVI: OTHER INFORMATION

For Household Use