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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: 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 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