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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name **BIO-X® LULLABY**
Active Ingredient Etofenprox (technical)
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	2.50
Inert Ingredients	97.50

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

Inhalation $LC_{50} > 5,900\text{mg/m}^3$ 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