



OKADA ECOTECH PTE LTD (REG NO 199805584M)

55 Ayer Rajah Crescent, #03-19/23,
Singapore 139949.
Tel.: (65) 6872 3515 Fax: (65) 6872 6558
www.okada-ecotech.com

MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name **BIO-X® 3-IN-1 VOC FREE AEROSOL**
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	1.25
Inert Ingredients & Surfactants	48.75
HFC 134a Propellant	50.00

SECTION III: HAZARD IDENTIFICATIONS

Skin contact: Non-irritating (Rabbit)
Eye contact: Non-irritating (Rabbit)
Skin sensitization: Non-sensitizing (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: > - 70° C

Extinguishing Media: Dry chemical powder, carbon dioxide

Special Fire Fighting Procedures: Use equipment or shielding as required, to protect personnel from bursting, rupturing or venting containers.

Unusual Fire & Explosion Hazards:

At elevated temperature > 54 deg C containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure. Do not spray near open flame or while smoking.

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. 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: 6.0 ± 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: LD₅₀ > 2,000mg/kg (OECD 420)
Inhalation: LC₅₀ > 5,900mg/m³ air
Dermal Absorption: LD₅₀ > 2,000mg/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: TRANSPORTION INFORMATION

Shipping Information: IATA Class 2.2

UN Number: UN1950

Proper Shipping Name: AEROSOL, Non-flammable, Non-toxic gases

SECTION XV: NATIONAL REGULATION AND REFERENCE

Registered with National Environment Agency, Singapore under Section 8 of the Control of Vectors and Pesticides Act 1998.

Registration Number: SINNEAI-WtrAE/003/0583

SECTION XVI: OTHER INFORMATION

For Household Use