



# OKADA ECOTECH PTE LTD (REG NO 199805584M)

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## MATERIAL SAFETY DATA SHEET

Date: 14/6/10

### SECTION I: PRODUCT IDENTIFICATION

Product Name : **Bio-X™ Pure**  
Active Ingredient : Botanical Extracts

### SECTION II: COMPOSITION

<u>Component</u>	<u>%w/w</u>
Botanical Extracts	15.00
Emulsifiers	4.60
Other Inert Ingredients	80.40

### SECTION III: HAZARD 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

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 : Milky White Liquid

Odor : Pleasant Pine odor

pH at 30 deg C : 4 – 6

Dispersibility in water : Completely soluble in water

Viscosity (BF/LVT/#1/100rpm/30deg C) : 3 - 7 cps

Specific Gravity : 1.00 ± 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 LD<sub>50</sub> > 2,000mg/kg (OECD 420 Guideline)

Inhalation LD<sub>50</sub> > 2.11mg/l air

Dermal Absorption LD<sub>50</sub> > 2,000mg/kg (OECD 434Guideline)

#### 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 Immobilisation  
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

None

SECTION XVI: OTHER INFORMATION

None