



OKADA ECOTECH PTE LTD

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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product Name: **BIO-X® i-SHIELD & BIO-X® Lv SHIELD**

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: 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: 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 \pm 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 Guideline)

Inhalation LD⁵⁰ > 2.11mg/l air

Dermal Absorption LD₅₀ > 2,000mg/kg (OECD 434 Guideline)

SECTION XII: ECOLOGICAL INFORMATION

1) Effect on Earthworm (LC50):	>1000mg/kg-safe
2) Effect on predators:	Harmless
3) Hazard to soil Microflora:	Non hazardous
4) Acute Daphnia Immobilisation Test (EC 50):	>1000mg/ltr-safe
NOEL:	197.5 mg/ltr
5) Acute toxicity to fish-Rainbow Trout (LC50):	440mg/ltr(24hrs) 150mg/ltr(96hrs) 50mg/ltr
NOEC:	
6) Algal Inhibition Test:	Non inhibitory/Non Stimulant
NOEC:	22mg/ltr
7) Metabolism in soil:	Rapid Decomposition in soil
8) 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