

## MATERIAL SAFETY DATA SHEET

### NEEM SEED KERNEL BASED FORMULATION (0.15 % AZADIRACHTIN)

#### SECTION I MANUFACTURER

E.I.D PARRY (INDIA) LIMITED  
Bio Products Division  
234, N.S.C. Bose Road  
Chennai - 600 001

Tel: +91-44-25340251  
Fax: +91-44-25340858

#### SECTION II

#### HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

Hazardous Components	%	CAS No.	OSHA/PEL	ACGIH/TLV	OTHER LIMITS RECOMMENDED
Azadirachtin	0.15	11141-17-6 95507-03-2	None known	None known	None known
Other proprietary mixture and formulation compounds	99.85	Not known	Not known	Not known	Not known

### **SECTION III**

#### **PHYSICOCHEMICAL CHARACTERISTICS**

Appearance	:	Brown viscous liquid
Odour	:	Characteristic neem odour
Solubility in water	:	Fully Soluble
Specific Gravity	:	0.94
Melting Point	:	> 160 deg C for Technical grade product
Vapour Pressure (Azadirachtin A):	:	$3.6 \times 10^{-11}$ (hpa)
Molecular Weight	:	720
Acidity	:	< 0.24%
PH	:	$6.9 \pm 0.1$
Corrosion Characteristics	:	Non corrosive to HDPE containers
Storage Conditions	:	20-25 deg C

### **SECTION IV**

#### **FIRE AND EXPLOSION DATA**

Flash Point	:	Not Known
Flammable Limits	:	Not known
Extinguishing Media	:	Polymer foam or carbon dioxide
Special Fire Fighting Procedures	:	Wear protective clothing and face shields
Unusual fire and explosion hazards	:	No hazard

## SECTION V

### REACTIVITY DATA

Stability	:	Stable at ordinary conditions of use and storage
Conditions to avoid	:	High temperature or sunlight or light quickly degrade the material
Materials to Avoid	:	Acids, alkali or oxidizing agents.
Hazardous Decomposition	:	No hazardous materials are produced
Hazardous polymerization	:	Not occur

## SECTION VI

### HEALTH HAZARD DATA

<b>Mode of Entry</b>	:	Inhalation - yes Skin - yes Ingestion- yes
<b>Acute Toxicity</b>	:	Acute oral - Rat LD 50 >765.8 mg//kg Acute Oral-mice LD 50>1570.4 mg/kg Primary skin Irritation-Rabbit-Non irritant Irritation to Mucous Membrane— Rabbit Mild Irritant Acute Dermal-Rabbit LD50->5g/kg
<b>Chronic Toxicity</b>	:	Mutation Assay-Non Mutagenic Neurotoxicity-No Neurotoxicity Reproductive Toxicity-NOAEL 5000 mg/kg Carcinogenicity-Non Carcinogenic Effect on spray operators-No adverse effects

### **SIGN AND SYMPTOMS OF EXPOSURE**

- Inhalation : May be irritating to mucous membrane and excessive exposure may result in drowsiness
- Ingestion : May cause drowsiness
- Skin Contact : May cause mild irritation
- Eye Contact : May cause mild irritation
- Chronic Exposure : Chronic exposure may cause various implications

### **EMERGENCY AND FIRST AID PROCEDURE**

- Inhalation : Remove to fresh air
- Ingestion : Induce vomiting by gastric lavage, call physician immediately
- Skin Contact : Wash skin with soap
- Eye Contact : Wash eyes with excessive water. Get medical attention if required

## **SECTION VII**

### **ECOLOGICAL SAFETY**

This formulation has shown good safety to various beneficials including Honey bees, Earthworm, Predators and parasites.

**SECTION VIII**  
**PRECAUTIONS FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Flush the area with water. Do not allow water to contaminate surrounding area. Personnel in operation may wear protective clothing.

**WASTE DISPOSAL METHOD**

Do not contaminate water, food, or feed by storage or disposal. Disposal of containers in an approved disposal facility. Ensure compliance with local, state and federal regulations.

**PRECAUTIONS FOR HANDLING AND STORAGE**

Keep in a cool and dry place. Avoid direct sunlight. Open dumping is prohibited. Dispose containers in an approved waste facility.

**OTHER PRECAUTIONS**

Shipping Name	:	INDIKA
Shipping Containers Markings	:	INDIKA
Shipping Container Labels	:	INDIKA
Special Instructions	:	No special instruction on handling required
Flammability	:	Non flammable
Transport by Air	:	Safe for Air Transport

**SECTION IX**  
**CONTROL MEASURES**

Respiratory Protection	:	Use spraying clothings to avoid spray mist direct contact
Protective Gloves	:	Wear protective gloves
Eye protection	:	Wear chemical safety goggles
Ventilation	:	Thorough ventilation is recommended in case of accidental spillage
Work Practices	:	Observe good personnel hygiene. Wash hands after usage of the product

## **SECTION X**

### **Regulatory Information**

Designation : Neem extract based product  
: Non Hazardous Material

## **SECTION XI**

### **Information Origin**

E.I.D Parry (India) Limited.  
234, N.S.C Bose Road  
“Dare House”  
Post Box No.12  
Chennai - 600 001 India

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