



BIO ORGANIC LIMITED

(Dealers and Distributors of Fertilizers, Pesticides, Seeds, Veterinary and Industrial Chemicals)

SAFETY DATA SHEET BIONEEM 300 PPM

AZADIRACHTIN 0.03% EC (AZADIRACHTIN BASED)

1. Identification

Description	Azadirachtin – A	Azadirachtin – B
CAS No.	11141-17-6	95507-03-2
Manufacturer	COROMANDEL INTERNATIONAL LIMITED BIO PRODUCTS DIVISION THYAGAVALLI VILLAGE ALAPAKKAM VIA CUDDALORE – 608 801 (INDIA)	
Regd. Office	COROMANDEL INTERNATIONAL LIMITED Dare House, Chennai	
Emergency Contact details	0091 4142 270201 / 202	

2. Hazard(s) identification

Hazardous Components	CAS No.	OSHA/ PEL	ACGIH/ TLV	OTHER LIMITS RECOMMENDED
Azadirachtin A & Azadirachtin B	11141-17-6 95507-03-2	None known	None known	None known
Other neem compounds, Aza-F, Aza-H, Aza-I, Salannin, Nimbin and Fatty acids etc.	118855-02-0 134788-15-1 134788-16-2 992-20-1 5945-86-8	Not known	Not known	Not known
Other proprietary mixture and formulation compounds.	Not known	Not known	Not known	Not known

Address: P.O Box: 29024 - 00100 Nairobi - Kenya

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[OFF OLD Mombasa Road, Nairobi - Kenya]

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R. RADHAKRISHNAN AGM – Technical Services

3. Composition / information on ingredients

Hazardous Components	Percentage Composition
Azadirachtin A & Azadirachtin B	0.03
Emulsifier	10.0
Neem Oil	Q.S

4. First Aid measures

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

5. Fire-fighting measures

Flash point	:	> 171°C - No Fire Explosion Hazard
Flammable	:	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

6. Accidental release measures

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

7. Handling and storage

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

8. Exposure controls / personal protection



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Respiratory protection	:	Use spraying clothing's 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

9. Physical and chemical properties

Appearance	:	Brown viscous liquid
Odour	:	Characteristic neem fragrant odour
Solubility in water	:	Emulsifies with water
Specific gravity	:	0.9600
Vapour pressure	:	3.6×10^{-11} (hpa)
Molecular weight	:	720 – Azadirachtin – A 662 – Azadirachtin – B
Active Ingredients	:	Azadirachtin – A Azadirachtin – B
Empirical formula	:	$C_{35} H_{44} O_{16}$ – Azadirachtin – A $C_{33} H_{42} O_{14}$ – Azadirachtin – B
Acidity	:	< 0.50 %
pH	:	7 \pm 0.01
Corrosion characteristics	:	Non corrosive to HDPE containers
Explodability	:	Non explosive
Boiling point	:	Not established

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Viscosity	:	281.4 mm ² /S at 20 0 C 96.95 mm ² /S at 40 0 C
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10. Stability and reactivity

Stability	:	Stable at ordinary conditions of use and storage
Conditions to avoid	:	High temperature, sunlight or illuminated places degrade the material
Materials to avoid	:	Acids, alkalis and oxidizing agents
Dangers of product decomposition	:	None
Hazardous decomposition	:	No hazardous material are produced
Hazardous polymerization	:	Not occur

11. Toxicological information

Mode of entry	:	Inhalation - Yes Skin - Yes Ingestion- Yes
Acute toxicity (Based on Neemazal 1.2EC Data)	:	Acute oral – Rat LD 50- Not applicable (liquid) Acute dermal - Rat LD 50 –Not applicable (liquid) Acute inhalation – Rat – LC50 – Not applicable Skin irritation - Rabbit – Mild Eye irritation – Rabbit – No irritation Skin sensitization – Guinea pig – No sensitization
Acute & chronic toxicity of technical active ingredient	:	Acute oral – Rat LD 50>5000 mg/Kg Acute dermal - Rat LD 50>2000 mg/Kg Acute inhalation – Rat – LC50>0.1 mg/L Skin irritation - Rabbit – slight Eye irritation - slight Mutagenicity – Non mutagenic Carcinogenicity – Non carcinogenic Neurotoxicity – No neurotoxicity (NOAEC 1000 mg/kg) Developmental toxicity – Rats - NOAEC 50 mg/Kg/Day Dietary toxicity – Rats NOAEC 100 ppm

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12. Ecological information

Effect on honeybees	:	Harmless
Effect on earthworms	:	Harmless (> 1000 mg/Kg)
Effect on predators	:	Harmless
Hazard to soil microflora	:	Non hazardous
Acute daphnia immobilization	:	EC 50 > 50 mg/L
Acute fish toxicity (rainbow trout)	:	LC 50 = 440 mg/L (24 hrs)
Algal inhibition test	:	Non inhibitory, non stimulant
Metabolism in soil	:	Rapid decomposition in soil
Degradability in water	:	Readily biodegradable in water

13. Disposal consideration

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.

14. Transport information

Shipping name	:	AZADIRACHTIN 0.03% EC
Shipping containers markings	:	AZADIRACHTIN 0.03% EC
Shipping container labels	:	AZADIRACHTIN 0.03% EC
Special instruction	:	No special instruction on handling required
Flammability	:	Non flammable
Transport by air	:	Safe for all kind of transport

15. Regulatory information

Designation	:	Eco-friendly neem based pesticide of plant origin Non hazardous material
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16. Other information

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Information Origin

Coromandel International Limited
234, N.S.C Bose Road
“Dare House”
Post Box No.12



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