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MATERIAL SAFETY DATA SHEET

Creation Date: 25.08.2017

Amendment Date: 30.08.2023

Neemazal T/S 1.2 % EC (AZADIRACHTIN BASED)

1. Identification

Description	Azadirachtin-A	Azadirachtin-B	
CAS No.	11141-17-6	95507-03-2	
	COROMANDEL INTERNA	TIONAL LIMITED	
Manufacturer	Thyagavalli Village,		
	Cuddalore-608 801, Tamil Nadu, India		
	Coromandel Internationa	al Limited	
Regd. Office	Coromandel House, Sardar Patel Road		
	Secunderabad 500003, T	elangana, India	
Emergency Contact details	+91 4147 770201/207		

2. Hazard(s) identification

HAZARDOUS COMPONENET	CAS No.	OSHA/PEL	ACGIH/TLV	OTHER LIMITS RECOMMENDED	
Azadirachtin A & Azadirachtin B	11141-17-6 95507-03-2	Not known		Not known	
Other neem compounds, Aza-F Aza-H, Aza-1 Salannin, Nimbin and Fatty acids etc.	pounds, F 118855-02-0 H, 134788-15-1 1 134788-16-2 nnin, 992-20-1 pin and 5945-86-8		Not known	Not known	
Other proprietary mixture and formulation compounds.	Not known	Not known	Not known	Not known	

For Coromandel International Limited,

Authorised Signal (Dr. C. Suresh Kura)



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3. Composition/information on ingredients

COMPONENTS	PERCENTAGE COMPOSITION	
Azadirachtin (a.i)	1.2% w/w	
Other limonoids Nimbin, salanin, fatty acids, glyceral esters, etc	3.5-4.0% w/w	
Surfactant	q.s to make	
Total	100.00%	

4. First Aid measures

Inhalation	: move-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	1	>171°C-No Fire Explosion Hazard
Flammability		Non Flammable
Extinguishing media	:	Polymer foam or carbon dioxide
Special Firefighting procedures	1	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

Respiratory protection	2	Use spraying clothing's to avoid spray mist direct contact
Protective Gloves		Wear protective gloves
Eye protection	- 1	Wear chemical safety goggles
Ventilation	6	Thorough ventilation is recommended in case of accidental spillage
Work practices	2)	Observe good personnel hygiene. Wash hands after usage of the product



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9. Physical and chemical properties

Appearance		Brown viscous liquid
Odour	:	Characteristic neem fragrant odour
Solubility in water		Emulsifies with water
Specific gravity		0.9800
Vapour pressure	*	3.6 x 10 ⁻¹¹ (hpa)
Molecular weight		720-Azadirachtin-A
		662-Azadirachtin-B
Active Ingredients		Azadirachtin-A
Active ingredients		Azadirachtin-B
Empirical formula		C ₃₅ H ₄₄ O ₁₆ -Azadirachtin-A
Empirical formula		C ₃₃ H ₄₂ O ₁₄ -Azadirachtin-B
Acidity		<0.50 %
рН		7±1
Corrosion characteristics	1	Non corrosive to HDPE containers
Boiling point		Not Established
Viscosity		281.4 mm2/s at 20°C 96.95 mm2/s at 40°C
Explodability		Non explosive

10. Stability and reactivity

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Stability	1	Stable at ordinary conditions of use and storage
Conditions to avoid		High temperature, sunlight or illuminated places
Conditions to avoid		degrade the material)
Materials to avoid		Acids, alkalis and oxidizing agents
Dangers of Product	1	None
decomposition		None
Hazardous Decomposition	:	No hazardous material are produced
Hazardous polymerisation		Not occur





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11. Toxicological information

		Inhalation-Yes		
Mode of entry	- 15	Skin-Yes		
		Ingestion-Yes		
		Acute Oral-Rat LD ₅₀ : >5000 mg/Kg (liquid)		
Acute toxicity (Based		Acute Dermal-Rat LD ₅₀ : >2000 mg/Kg		
on Neemazal 1.2 %EC		Acute inhalation Rat: >5400 mg/L of Air		
Data)	**	Skin irritation Rabbit: Mild Irritant (All reactions cleared by 7 days)		
		Eye Irritation-Rabbit- Mild Irritant (All irritations cleared by 2 days)		
		Skin sensitization-Guinea pig-No sensitization		
		Acute Oral-Rat LD ₅₀ : >5000 mg/Kg		
		Acute Dermal-Rat LD ₅₀ :2000 mg/Kg		
		Acute Inhalation-Rat-LC ₅₀ -0.1 mg/L of Air		
Acute & chronic	,	Skin Irritation-Rabbit-Slight irritation		
toxicity of technical		Eye Irritation-Slight irritation		
active Ingredient		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		

12. Ecological information

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Effect on honey bees	13	Harmless
Effect on earthworm	:	LD ₅₀ : >1000 mg/Kg)
Effect on predators	1	Harmless
Hazard to soil microflora	1	Non hazardous
Metabolism in soil	ig	Rapid decomposition in soil
Acute daphnia immobilization	1	EC ₅₀ :>1000 mg/L.
Algal inhibition test		Non inhibitory, Non-stimulant
Acute fish toxicity (rainbow trout)	1	LC ₅₀ : 440 mg/L. (24 hrs)
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	:	NEEMAZAL T/S 1.2% EC	
Shipping containers markings		NEEMAZAL T/S 1.2% EC	
Shipping container labels	(3)	NEEMAZAL T/S 1.2% EC	
Special instruction	:	No special instruction on handling required	
Flammability	828	Non flammable	
Transport by air	:	Safe for all kind of transport	1



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15. Regulatory information

Designation	ě	Eco-friendly neem based pesticide of plant origin Non-hazardous
		material

16. Other information

Information Origin

COROMANDEL INTERNATIONAL LIMITED Thyagavalli Village, Cuddalore - 608 801, Tamil Nadu, India.

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For Coromandel International Limited,

Authorised S

(Dr. C. Suresh)