

MATERIAL SAFETY DATA SHEET

OZONEEM TRISHUL 50000 PPM (5% EC)

(NEEM BASED NATURAL PRODUCT)

SECTION 1

MANUFACTURER INFORMATION

Ozone Biotech

(A Division of Shivanshu Sintered Products Pvt. Ltd.)

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Date Prepared: December 2004

SECTION 2

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	%	CAS No.	OSHA/PEL	ACGIH/TLV	OTHER LIMITS RECOMMENDED
Azadirachtin A Azadirachtin B	5.0	11141-17-6 95507-03-2	None known	None known	None known
Other Neem compounds like Azadirachtin F Azadirachtin H Azadirachtin I Salannin, Nimbin and fatty acids etc.	15.0	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	80.0	Not known	Not known	Not known	Not known

SECTION 3

PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance	: Brown viscous liquid
Odor	: Characteristic Neem fragrant odor
Solubility in water	: Emulsifies with water
Specific Gravity	: 0.973 gm/ ml
Evaporation Rate	: Not known
Vapour Density	: Not known
Molecular Weight	: 720 (Azadirachtin A) : 662 (Azadirachtin B)
Empirical Formula	: C ₃₅ H ₄₄ O ₁₆ (Azadirachtin A) : C ₃₃ H ₄₂ O ₁₄ (Azadirachtin B)
Acidity	: < 0.24
pH	: 6 – 6.5
Corrosion Characteristics	: Non corrosive to HDPE containers

SECTION 4

FIRE AND EXPLOSION DATA

Flash Point	: > 100°C - No Fire Hazard
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 5

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 6

HEALTH HAZARD DATA

Mode of Entry: Inhalation - yes
Skin - yes
Ingestion- yes

Health Hazards:

Acute Toxicity Acute oral - Rat LD₅₀>765.8 mg/kg
Acute Oral-mice LD₅₀>1570.4 mg/kg
Primary skin Irritation-Rabbit --Non irritant
Irritation to Mucous Membrane Rabbit-Mild
Irritant
Acute Dermal-Rabbit LD₅₀>5g/kg

Chronic Toxicity : Mutation Assay-Non Mutagenic
: Neuro-toxicity-No Neuro-toxicity
: Reproductive Toxicity-NOAEL 5000 mg/kg
: Carcinogen city-Non Carcinogenic
: Effect on spray operators-No adverse effects

SECTION 7

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

SECTION 8

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 9

SPILL OR LEAK PROCEDURES

Environmental Hazard: Do not apply directly to water, or to areas where surface water is present. This product is toxic to bees exposed to direct treatment.

Spillage : Absorb the liquid and scrub the area with detergent and water. Avoid runoff into storm sewers and ditches that lead to waterways

Waste Disposal Method: Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.

SECTION 10

Special Protection Information

Respiratory Protection : No special requirements.
Ventilation : No special ventilation requirements.
Eye Protection : Use of safety goggles is recommended.
Skin Protection : Use of rubber gloves is recommended.

SECTION 11

Handling & Storage Conditions

Keep in tightly closed container. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Dispose containers in an approved waste facility.

SECTION 12

Transportation Information

D.O.T Proper Shipping Name : N / A
Technical Shipping Name : Neem EC 50000 ppm (5 %)
D.O.T. Hazard Class : N / A

SECTION 13

OTHER PRECAUTIONS

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

SECTION 14

CONTROL MEASURES

Respiratory Protection	: Use spraying clothing's to avoid spray mist direct contact
Protective Gloves	: Wear protective gloves
Eye protection	: Wear 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 15

Regulatory Information

Designation	: Eco-friendly Neem Based Insecticide of Plant Origin
	: Non-Hazardous Material

SECTION 16

Information Origin

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