

MATERIAL SAFETY DATA SHEET

OZONEEM TRISHUL 10000 PPM (1% 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 | 1.0 | 11141-17-6 95507-03-2 | None known | None known | None known |
| Other Neem compounds Azadirachtin F Azadirachtin H Azadirachtin I Salannin, Nimbin and fatty acids etc. | 3.0 | 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 | 96.0 | Not known | Not known | Not known | Not known |

SECTION 3

PHYSICAL DATA & INGREDIENTS

| | |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance | : Brown viscous liquid |
| Odor | : Characteristic Neem fragrant odor |
| Solubility in water | : Emulsifies with water |
| Specific Gravity | : 0.945 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 | : > 171°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 LD 50 >5000 mg/kg
: Acute Dermal-Rat LD 50>2000 mg/kg
: Inhalation-Rat LC 50>5.4 mg/L
: Primary Eye Irritation-Rabbit>No Irritation
: Primary skin Irritation-Rabbit>Mild
: Skin Sensitization-Guinea Pig> No sensitization

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 10000 ppm (1 %) |
| 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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