NanoStick

Providing Pesticide & Insecticide with Longer Performance and Environmental Advantages

NanoStick is an enhancer for both pesticide and insecticide. It is made of environmental friendly and readily biodegradable raw materials which are exceptionally mild to skin. The formulation is based on the combination of nanobiotechnology and green chemistry. It is formulated to serve the demand of agriculture market for cost effective, efficacious products that are milder and less harmful to the environment and its inhabitants.

NanoStick is an advanced enhancer of gelling agents, low foaming Nano Alpha-10, Nano Colloidal Particles and fatty acids. It helps to enhance the performance of pesticides and insecticides in eliminating pests and insects attack on plants.

Functions

- **Sticker**
  Increases the adhesion of solid particles to target surfaces and decreases the amount of pesticide and insecticide that washes off during irrigation or rain. It can also reduce evaporation of pesticide and insecticide.
- **Surfactants**
  As wetting agents & spreaders, physically alter surface tension of a spray droplet to wet the foliage and spread evenly over the leaf, therefore increase coverage area.
- **Penetrators**
  Molecular configuration that enhances penetration into plants.
- **Compatible**
  Physically or chemically compatible with pesticides and insecticides.
- **Thickeners**
  Increase the viscosity of spray mixtures to slow down evaporation for better and longer penetration of plant cuticle.

Lower Costs & Environmental Benefits

The increased coverage and longer performance from NanoStick will require fewer pesticide and insecticide applications. These result in lower cost and less pesticide and insecticide usage.

Low Toxicity and Readily Biodegradable

NanoStick exhibits very low human and aquatic toxicity while offering the environmental advantage of being readily biodegradable.

Acute Toxicity Test of Nano Alpha 10

Test Method:
OECD Guideline for Testing of Chemicals Method 203 Fish.

Result:
Not hazardous to the aquatic environment.

Biodegradability Test of Nano Alpha 10

Test Method:
International Standard ISO 10707:1994(E).
Evaluation in an aqueous medium of the "ultimate" aerobic biodegradability of organic compounds – Method by analysis of Biochemical Oxygen Demand (Closed bottle test).

Result:
Reach 96% of degradation at day 28 and it is readily biodegradable.

SHEPROS®
Safety, Heath & Environment Product Solutions

Principal Functioning Agents

Proprietary Blend of Gelling Agents,
Nano Alpha-10 and Palm Fatty Acids. 80%
Constituents Ineffective as Adjuvants. 20%
Total 100%

Directions For Use

Label Rate:

Add 250 mL of NanoStick per 10 liters of spray mix solution for 14 days spraying interval. Add 500 mL of NanoStick per 10 liters of spray mix solution for more than 14 days spraying interval. Do not exceed recommended rate for NanoStick as it may impede pesticides and insecticides performance.

Mixing Applications:

- Fill spray tank with water for treatment application.
- Always add NanoStick first before any other chemicals.
- Add the label rate of NanoStick and agitate until thoroughly mixed.
- Add other pesticides and insecticides to the mixture and allow for continued agitation.

Handling Precautions:

- Always wear goggles, masks and gloves during application. If eye contact occurs, immediately flush eyes with large amounts of running water. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.
- Avoid prolonged contact with skin. May cause minor skin irritation for sensitive skin. Flush skin with water for approximately 15 minutes while removing contaminated clothing. If irritation persists, see a medical doctor.

Storage:

- Store in dry area.
- Keep away from excess heat or flame.
- Always store in original container.

Packing:

Packing are available in 1 kg, 5 kgs and 20 kgs.

Container Disposal:

- Triple rinse and add rinse to spray tank.
- Dispose of container according to the regulations or state and local authorities.