

# NanoHerb

## Providing Herbicide with Excellent Performance and Environmental Advantages

**SHEPROS NanoHerb** is readily biodegradable and relative mild enhancer. It is based on eco-friendly, renewable and green chemistry raw materials. 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.

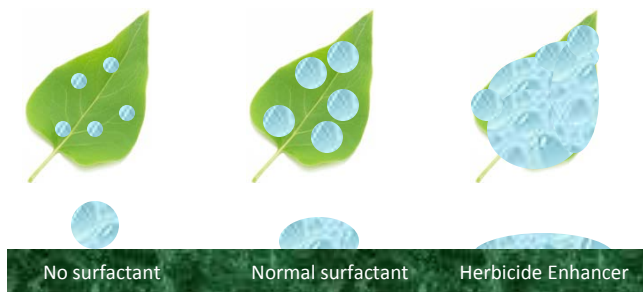
**SHEPROS NanoHerb** is an advanced plant based buffering agents of low foaming Nano Alpha-10, esters and edible oils. It provides immediate breakdown waxy cuticle of leaves, allowing deeper herbicide penetration.

### Advantages

- 100% plant and food based ingredients.
- Less risk of herbicide run-off and soil leaching.
- Effective penetrating.
- Tolerant of high electrolyte tank mix solutions.
- Uniform coverage.
- Reduces foaming.
- Low eye and skin irritancy.
- Cost effective.

### Lower Costs & Environmental Benefits

The increased coverage and improved performance from NanoHerb will require fewer herbicide applications. These result in lower cost and less herbicide usage.



Droplets on leaf surface, their surface tension and contact angles.



### Low Toxicity and Readily Biodegradable

**Nano Alpha-10** in **NanoHerb** 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.

## Principal Functioning Agents

Proprietary Blend of Nano Alpha-10, Palm Fatty Acids, Esters and Palm Oil . . . . . 100%

## Directions For Use

### Selective Herbicides:

Due to the very specific properties of selective herbicides, we recommend a reduction in the herbicide label rate for initial trials with NanoHerb (use 1.5 mL of NanoHerb per 1 L of water). Always try small test plots before treating large areas. After initial trials, adjust rates if needed.

### Label Rate:

Add 1 mL of NanoHerb per 1 liter of spray mix solution for open area with less than 30% shaded. Add 0.5 mL of NanoHerb per 1 liter of spray mix solution for matured plantation with more than 30% shaded. Do not exceed recommended rate for NanoHerb as it may impede pesticides performance.

### Mixing Applications:

- Fill spray tank with water for treatment application.
- Always add NanoHerb first before any other chemicals.
- Add the label rate of NanoHerb and agitate until thoroughly mixed.
- Add other herbicides 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 25 kgs.

### Container Disposal:

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

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