



  
Cleargreen.

**SYSTEMIC**<sup>TM</sup>

**NANOTECH SURFACTANT**

Cleargreen's SYSTEMIC<sup>TM</sup> surfactant is manufactured in the USA.  
The product is safe and effective for people, pets, and wildlife when used as directed.

# RATE GUIDE

2025 ©Cleargreen Incorporated

TM

# Rates & Benefits



## 1. Agriculture & Food Crops

- **Application Rate:** 12-16 oz per acre for every 10-12 gallons of water (varies by crop & application type).
- **Compatibility:** Mixes well with fertilizers, herbicides, fungicides, & biological treatments.
- **Benefits:**
  - Improves nutrient & pesticide penetration.
  - Reduces runoff & evaporation loss.
  - Enhances root & foliar absorption.

## 2. Sod & Turfgrass Management

- **Application Rate:** 2 quarts per 100 gallons of water.
- **Compatibility:** Works with fertilizers, fungicides, insecticides, & wetting agents.
- **Benefits:**
  - Increases water infiltration in compacted or hydrophobic soils.
  - Improves drought resistance.
  - Enhances nutrient uptake & soil microbial activity.

## 3. Trees, Shrubs, and Ornamentals

- **Application Rate:** 32 oz per 50 gallons, depending on plant type & size.
- **Compatibility:** Works with foliar sprays, drench applications, & systemic pesticides.
- **Benefits:**
  - Improves uptake of systemic treatments (fungicides, insecticides, nutrients).
  - Enhances translocation of nutrients from roots to leaves.
  - Reduces water stress & increases plant vigor.

# Rates & Benefits



## 4. Insecticides & Pest Control

- **Application Rate:** 128-150 oz per 100 gallons.
- **Compatibility:** Enhances effectiveness of contact & systemic insecticides.
- **Benefits:**
  - Improves spread & adhesion of insecticides.
  - Increases pesticide absorption for longer-lasting effects.
  - Helps penetrate dense canopies & hard-to-reach areas.

## 5. Herbicides & Weed Control

- **Application Rate:** 64 oz per 100 gallons for broadleaf weed control. Up to 2 oz per gallon for invasive species (Cogongrass, Kudzu, Smilax, etc)
- **Compatibility:** Works with selective & non-selective herbicides.
- **Benefits:**
  - Enhances herbicide penetration into waxy leaves & tough stems.
  - Reduces chemical drift.
  - Improves weed kill efficiency, reducing herbicide use by 25-50%.

## 6. Fungicides & Disease Management

- **Application Rate:** 64-128 oz per 100 gallons.
- **Compatibility:** Effective with contact & systemic fungicides.
- **Benefits:**
  - Improves fungicide coverage for better disease control.
  - Enhances root & foliar uptake.
  - Reduces fungicide wash-off during rain or irrigation.

# Rates & Benefits



## 7. Fertilizer & Nutrient Applications

- **Application Rate:** 64 oz per 100 gallons per acre for foliar feeding.
- **Compatibility:** Can be mixed with liquid fertilizers & biological amendments.
- **Benefits:**
  - Increases nutrient absorption efficiency.
  - Improves leaf penetration & uptake.
  - Reduces nutrient leaching & volatilization.

## 8. Soil Conditioning & Water Management

- **Application Rate:** 64-100 oz per 100 gallons per acre for soil drench or irrigation.
- **Compatibility:** Works with microbial inoculants & soil amendments.
- **Benefits:**
  - Breaks down hydrophobic soil barriers for better water penetration.
  - Enhances soil microbial activity.
  - Reduces water runoff & soil erosion.

## 9. Hydroponics & Controlled Environment Agriculture

- **Application Rate:** 16-32 oz per 100 gallons of nutrient solution.
- **Compatibility:** Compatible with hydroponic nutrient systems.
- **Benefits:**
  - Improves nutrient transport & uptake in root zones.
  - Enhances oxygen exchange in hydroponic media.
  - Prevents nutrient lockout in closed-loop systems.

# Rates & Benefits



## 10. Forestry & Land Restoration

- **Application Rate:** 32-128 oz per 100 gallons per acre for tree planting & land rehabilitation.
- **Compatibility:** Works with reforestation sprays, soil amendments, & erosion control products.
- **Benefits:**
  - Accelerates tree & vegetation establishment.
  - Improves drought resilience in reforested areas.
  - Enhances soil recovery & microbial activity.

## Additional Notes

### Mixing Instructions for Integrated Solutions

When mixing integrated solutions, begin by blending microbial consortium and molasses with unchlorinated water 24-48 hours in advance. Just prior to application, add SYSTEMIC™ and then any additional inputs (plant food).

### Rainfast Period

Provides faster absorption (most products are under 30 minutes).

### Reduction of Chemical Use

Allows 25-50% reduction in fertilizer and chemical inputs while maintaining efficacy.

# SYSTEMIC<sup>®</sup>

## ACTIVE INGREDIENTS

ORGANIC ALCOHOL .....	20%
HORTICULTURAL OIL .....	22%
ORGANIC SUCROSE .....	20%
FATTY ACIDS .....	33%
INERT INGREDIENTS .....	5%

## CAUTION

READ ALL DIRECTIONS BEFORE USING

### KEEP OUT OF REACH OF CHILDREN

**Storage and Disposal:** Do not freeze. Dispose of in accordance with local, state, and federal regulations.

**PRECAUTIONS:** The product may cause eye irritation. If contact with the eye occurs, flush with water for 15 minutes. If on the skin, wash with soap and water.

**WARRANTY:** Cleargreen Incorporated warrants that this product conforms to the analysis on its label. When used in accordance with label directions under normal conditions, is reasonably fit for its intended purposes. Since the timing, method of application, weather, plant and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions abnormal or not reasonably foreseeable. The user assumes all risks of any such use. Cleargreen Incorporated 5900 Balcones Drive, Suite 100 Austin TX 78731.

Weight per gallon  
8.75 lbs



**Cleargreen**

Manufactured in the USA  
Cleargreen Incorporated  
[www.cleargreen.info](http://www.cleargreen.info)  
(800) 968-2988

## NANOTECH SURFACTANT

Concentrated, all-natural surfactant for agriculture, trees, pasture, citrus, ornamentals, turf, shrubbery, and more.

**Applications:** Maximize the performance of herbicides, fertilizers, chelated micronutrients, fungicides, antibiotics, antibacterials, and most Ag input products. SYSTEMIC<sub>2</sub> surfactant reduces the surface tension of tank water by up to 50%. Amplification of spray mix solutions is very compatible with low volume spray programs and may result in reduced chemical usage.

**Directions:** Mix 1 oz. with every gallon of water. SYSTEMIC<sub>2</sub> surfactant is safe for all spray systems including airplane and helicopter. Agitation not required. SYSTEMIC<sub>2</sub> surfactant mixes become rainfast in under 10 minutes. Very low drift.

**Golfcourse application:** For greens, tees, and fairways, mix 1 oz per gallon of non-chlorinated water.

**Soils:** SYSTEMIC<sub>2</sub> surfactant is an excellent herbicide additive and will neutralize herbicide overspray and residue, to reduce the chance of runoff into waterways. Use with aquatic herbicides: SYSTEMIC<sub>2</sub> surfactant can be used with all aquatic herbicides as it will not harm fish or wildlife and is safe for food crops.

## Contact

[products@cleargreen.info](mailto:products@cleargreen.info)  
(800) 968-2988