

# Gradual-N®

## 25-0-0

### With 0.5% Boron

#### Guaranteed Analysis

Total Nitrogen (N) .....25.0%  
18.8% Urea Nitrogen  
6.2% Other Water Soluble Nitrogen\*  
Boron (B) ..... 0.5%

Derived from urea, methylene urea, triazone, and disodium octaborate  
\*6.2% slowly available nitrogen from methylene urea

Do not store below 45°F

**KEEP OUT OF REACH OF CHILDREN**



#### **WARNING**

Causes serious eye irritation. Causes skin irritation.

#### **PRECAUTIONARY STATEMENTS**

Wash hands thoroughly after handling. Wear protective gloves, eye and face protection. Do not store below 45°F. Store out of direct sunlight. Keep in a cool location out of reach of children and livestock. Dispose of contents/container in accordance with Federal, state and local regulations.

#### **FIRST AID**

**IF IN EYES:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**IF ON SKIN:** Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.

For Emergency, Spill, Leak, Fire, Exposure, or Accident, Call: CHEMTREC 1-800-424-9300

#### **GENERAL RECOMMENDATIONS**

Gradual-N® 25-0-0 with 0.5% Boron is designed for foliar application where the addition of boron, readily available nitrogen, and slowly available nitrogen could be beneficial. Gradual-N® 25-0-0 with 0.5% Boron contains urea nitrogen for immediate response as well as methylene urea, which is converted to a usable form of nitrogen over time. The boron in Gradual-N® 25-0-0 with 0.5% Boron is rapidly absorbed and translocated throughout the plant.

Gradual-N® 25-0-0 with 0.5% Boron can be mixed with most pesticides when mixing is done in the following order: (1) ½ of the water (turn on circulation), (2) Gradual-N® 25-0-0 with 0.5% Boron, (3) flowable materials, and (4) wettable powders. If local information is not available on compatibilities, conduct a jar test.

F1683

Distributed and Guaranteed By:  
Winfield Solutions, LLC  
P.O. Box 64589  
St. Paul, MN 55164

Weight per gallon 10.0 lbs (4.54 kg)  
Net Contents: 2.5 gallons (9.46 L)  
Net Weight: 25 lbs (11.34 kg)  
1/1213/7

# WINFIELD™

## DIRECTIONS FOR USE

### FIELD CROPS

Crop	Rate/Acre	Directions for Use
Alfalfa <sup>(1)</sup>	4 – 6 quarts	Apply after each cutting when sufficient foliage is present.
Canola <sup>(1)</sup>	4 – 8 quarts	Apply pre-bloom.
Corn (field, seed sweet)	3 – 5 gallons 1 – 3 gallons 1 – 2 gallons	Apply at V-5 to V-8 as a foliar application for use as a partial side-dress Nitrogen (N) replacement. As a foliar application at pre-tassel as a Nitrogen (N) supplement. Apply as a foliar application when used with fungicides, insecticides.
Cotton	3 – 4 quarts 2 – 4 quarts 4 – 12 quarts	Seedling: Apply when first true leaves appear. After Seedling Stage Boll Development: Apply at early boll formation and repeat at 4-21 day intervals.
Flax	6 – 10 quarts	Apply at early bloom.
Grain Sorghum	4 – 6 quarts	Apply after pollination.
Grass (seed production)	10 – 16 quarts	Apply at seed head elongation.
Hops	4 – 6 quarts	Apply before cone development.
Peanuts	10 – 16 quarts 4 – 6 quarts	Single application: At early pod development. Multiple applications: Apply at early bloom and repeat at 14-21 day intervals until pods are filled.
Potatoes	10 – 16 quarts 4 – 6 quarts	Single application: Apply at mid tuber development. Multiple applications: Apply at tuber initiation and repeat at 10-14 day intervals until maximum tuber development has occurred.
Rice	6 – 10 quarts	Apply at panicle emergence.
Small Grains	1 – 3 gallons 1 – 3 gallons	Apply from spring green-up to early joint (Feekes 8) as a partial replacement of soil applied Nitrogen (N). Apply at or near flag leaf stage as a Nitrogen (N) supplement.
Soybeans	1 – 3 gallons	As Nitrogen (N) supplement. Apply at V6-R4 growth stage.
Sugar Beets <sup>(1)</sup>	10 quarts	Apply at 10-12 leaf and repeat at 20 leaf.
Sunflower <sup>(1)</sup>	4 – 6 quarts	Apply when outer seeds start to fill, repeat in 10-14 days.
Sweet Potatoes	4 – 6 quarts	Apply at tuber initiation and repeat at 10-14 days
Tobacco <sup>(1)</sup>	6 – 10 quarts	Apply at plant bed stage to near maturity as needed to maintain crop growth and quality.

**Note (1)** FOR USE IN WISCONSIN: Gradual-N® 25-0-0 with 0.5% Boron can be applied to these crops commonly grown in Wisconsin and requiring a medium to high level of boron.

### VEGETABLE CROPS

Crop	Rate/Acre	Directions for Use
Asparagus <sup>(1)</sup>	6 -10 quarts	Apply beginning at mid-fern development, than at 12-14 day intervals.
Beans (dry)	10 quarts 4 – 6 quarts	Single application: Apply at early pod formation. Multiple applications: Apply at early full flower and repeat in 10-14 days.
Beans (green, lima)	4 – 6 quarts	Apply at early flower and repeat in 7 -10 days.
Broccoli <sup>(1)</sup>	6 – 10 quarts	Apply first application after thinning, then 3 weeks before head formation and repeat in 7-10 days.
Cabbage <sup>(1)</sup>	6 – 10 quarts	Apply first application after thinning, then early head formation and repeat after 14-21 days.
Cantaloupe	6 – 10 quarts	Apply at early flowering and repeat 7-10 days later.
Cauliflower <sup>(1)</sup>	6 – 10 quarts	Apply first application after thinning or transplant, other applications at early head set and repeat at 10-14 day intervals.
Celery <sup>(1)</sup>	4 – 6 quarts	Apply when plants are 8-12 inches tall and repeat at 10-14 day intervals.
Cucumbers	10 – 16 quarts 4 – 6 quarts	Single application: Apply at early fruit set. Multiple applications: Apply at early flowering and repeat at 10-14 day intervals.
Lentils	4 – 6 quarts	Apply at early flowering and repeat at 10-14 day intervals.
Lettuce <sup>(1)</sup>	4 – 6 quarts	Apply after thinning, then at early head formation and repeat at 10-14 day intervals.
Okra	4 – 6 quarts	Apply at bud stage and repeat at 10-14 day intervals.
Onions	4 – 6 quarts	Apply at mid set development and repeat at 14-21 day intervals.
Peas	4 – 6 quarts	Apply at early flowering and repeat in 10-14 days.
Peppers <sup>(1)</sup>	4 – 6 quarts	Apply at early fruit set and repeat in 10-14 days.
Spinach	6 – 10 quarts	Apply when sufficient foliage is present and repeat at 14-21 days.
Squash	6 – 10 quarts	Apply at early fruit set and repeat at 10-14 day intervals.
Tomatoes (process) <sup>(1)</sup>	10 quarts 4 – 6 quarts	Single application: Apply 10 – 14 days after full bloom. Multiple applications: Apply at full bloom and repeat at 10 – 14 day intervals until harvest is near completion.
Watermelons	6 – 10 quarts	Apply at early flowering and repeat 7-10 days later.

**Note (1)** FOR USE IN WISCONSIN: Gradual-N® 25-0-0 with 0.5% Boron can be applied to these crops commonly grown in

Wisconsin and requiring a medium to high level of boron.

**FRUITS AND NUTS**

Crop	Rate/Acre	Directions for Use
Almonds	6 – 10 quarts	Apply at full leaf. Repeat at early nut expansion.
Apples <sup>(1)</sup>	4 – 6 quarts	Apply prior to fruit set or post-harvest.
Caneberries	4 – 6 quarts	Apply prior to fruit set.
Cherries	4 – 6 quarts	Apply prior to fruit set.
Citrus	4 – 6 quarts	Apply at early bloom and repeat after fruit set.
Cranberries	4 – 6 quarts	Apply at hook stage and repeat after fruit set.
Filberts	10 – 16 quarts 4 – 6 quarts	Single application: Apply at early nut filling. Multiple applications: Apply at early leaf expansion and repeat at 14 – 21 day intervals.
Grapes	2 – 4 quarts	Apply prior to fruit set.
Peaches/Nectarines	6 – 10 quarts	Apply prior to fruit set.
Pears	4 – 6 quarts	Apply prior to fruit set or post-harvest.
Pecans	4 – 6 quarts	Apply at full leaf. Repeat at early nut expansion.
Plums	6 – 10 quarts	Apply prior to fruit set.
Olives	4 – 6 quarts	Apply at early fruit development and repeat as required.
Strawberries	2 – 3 quarts	Apply at early flowering and repeat every 14 days through harvest. Initiate fall application when new growth reaches 3 inches in height.

**Note (1)** FOR USE IN WISCONSIN: Gradual-N® 25-0-0 with 0.5% Boron can be applied to these crops commonly grown in Wisconsin and requiring a medium to high level of boron.

**COMMERCIAL CHRISTMAS TREES, ORNAMENTALS AND NURSERY STOCK**

Apply 4-10\* quarts per acre when sufficient foliage is present. Gradual-N® 25-0-0 with 0.5% Boron has been applied undiluted to some types of ornamentals and nursery stock. Since these plants vary widely in growth habit and leaf texture, some types are more susceptible to leaf or tip burn than others. It is recommended that the user try only a few plants at undiluted or concentrated rates and observe for a week before general applications are made.

\*A rate of 10 quarts/acre is equivalent to 7.35 oz per 1,000 square feet.

**TURF:** Gradual-N® 25-0-0 with 0.5% Boron may be used on all turf grasses including: bluegrass, perennial ryegrass, and other northern grasses, bahiagrass, tall fescue, St. Augustine grass, zoysia grass, centipede grass, bentgrass and bermuda grass. Apply according to the amount boron required.

Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rains are expected. Apply this product only to your lawn/garden.

**Note:** On centipede grass do not apply with other fertilizers, pesticides or specialty products when temperatures can exceed 90° F.

**Application Tables for Turf**

Turf Applications Amount of Gradual-N® 25-0-0 + 0.5% Boron per 100 gallons				
Rate of Application (per 1000 ft <sup>2</sup> )	1/8 lb N (gallons)	1.4 lb N (gallons)	1/3 lb N (gallons)	1/2 lb N (gallons)
2 gallons	2.4	4.8	6.4	9.6
3 gallons	1.6	3.2	4.3	6.4
4 gallons	1.2	2.4	3.2	4.8

Turf Applications Gradual-N® 25-0-0 + 0.5% Boron per fl oz	
6 oz <sup>1</sup>	1/8 lb N
12 oz	1/4 lb N
16 oz	1/3 lb N
25 oz	1/2 lb N
<sup>1</sup> Rates are per 1000 ft <sup>2</sup>	

For use on crops not listed on this label, apply according to the directions of your regional Winfield agronomist or local agricultural professional to crops where the addition of slow release Nitrogen and boron would be beneficial.

#### **APPLICATION PRECAUTIONS**

Gradual-N® 25-0-0 with 0.5% Boron is most effective when plants are growing rapidly and least effective when plants are dormant or suffering from stress. Do not apply when temperatures exceed 90°F or when plants are under stress due to excessive heat or lack of moisture. Determine compatibility before tank mixing with other fertilizers and/or pesticides by a jar test.

**WARNING:** Excess amounts of Boron can cause plant injury. **DO NOT OVER APPLY!** Always obtain specific Boron recommendations from your local agricultural authority before applying.

Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.htm>

#### **WARRANTY DISCLAIMER**

Winfield Solutions, LLC warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NOR IS ANY REPRESENTATIVE OF SELLER AUTHORIZED TO MAKE ANY SUCH WARRANTY OR MODIFY THESE TERMS. This warranty does not extend to the storage, handling or use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such storage, handling or use. Seller shall not be responsible for incidental or consequential damages, if any, resulting from a breach of warranty.

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