

# GRAVITY® S 16-3-16

## Cal-Mag Soluble Fertilizer

### Guaranteed Analysis

Total Nitrogen (N).....	16.0%
3.4% Ammoniacal Nitrogen	
12.6% Nitrate Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	3.0%
Soluble Potash (K <sub>2</sub> O) .....	16.0%
Calcium (Ca).....	4.0%
Magnesium (Mg).....	2.0%
Boron (B) .....	0.02%
Copper (Cu) .....	0.01%
0.01% Chelated Copper (Cu)	
Iron (Fe) .....	0.1%
0.1% Chelated Iron (Fe)	
Manganese (Mn) .....	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo) .....	0.008%
Zinc (Zn) .....	0.04%
0.04% Chelated Zinc (Zn)	

**Derived from:** Ammonium nitrate, Boric acid, Calcium Nitrate, Copper EDTA, Iron EDTA, Manganese EDTA, Monopotassium phosphate, Potassium Nitrate, Magnesium nitrate, Sodium Molybdate, and Zinc EDTA, Ascophyllum nodosum, Magnesium sulfate anhydrous

### KEEP OUT OF REACH OF CHILDREN



### WARNING

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.  
May cause respiratory irritation.

### PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection.

### 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 SWALLOWED:** Call a poison control center or doctor for treatment advice if you feel unwell. Rinse mouth.

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

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor for treatment advice if you feel unwell.

**IF EXPOSED OR CONCERNED:** Get medical advice/attention.

**In Case of Medical Emergency, call toll free 1-877-424-7452**

Distributed and Guaranteed by:

Winfield Solutions, LLC

P.O. Box 64589

St. Paul, MN 55164-0589

F1683

NET WEIGHT: 25 lbs (11.3 kg)

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**WINFIELD  
UNITED**

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Store in a locked area away from children, feed and food products. Ensure that the area is clean and dry. Reseal opened bags by folding down and securing the bag. To minimize application problems, do not store unused product in sprayers for long periods of time.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local regulations.

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC  
1-800-424-9300

## GENERAL INFORMATION

**Gravity S 16-3-16** is a 100% soluble fertilizer designed to provide complete nutrition for healthy growing plants such as turf and ornamentals. **Gravity S 16-3-16** is specifically formulated for plants growing in low light conditions due to nitrogen adjustments compared to normal Cal-Mag products.

Information regarding the contents and levels of metals in this product is available on the internet at:

<http://www.aapfco.org/metals.html>

## DIRECTIONS FOR USE

### READ ENTIRE LABEL BEFORE USING

### NOT FOR USE ON FOOD CROPS

**Gravity S 16-3-16** can be tank mixed. If you are unfamiliar with the product, a jar test should be used to confirm compatibility and a small area should be treated with the product prior to large scale application.

**Gravity S 16-3-16** should not be mixed with strong acids as product degradation will occur and the fertilizer will precipitate. Apply only as directed during the growing season.

#### Caution:

- Over-application or excessive use of boron, or use on plants can result in boron toxicity and may cause serious crop injury.
- This product contains Molybdenum. Plants high in molybdenum are toxic to livestock.
- Concentration should not exceed 3 lbs of product in 1 gallon of water.
- **For Turfgrass Applications:** Do not apply near water, storm drains, or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto your lawn/garden.
- **In Virginia**, this lawn fertilizer, which contains phosphorous, is intended only for nonagricultural use on (i) turf during its first growing season, (ii) turf areas being repaired or renovated, and (iii) turf where a soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not intended for the routine maintenance of turf.
- **In Maryland**, this product is to be used as a seed starter fertilizer for newly established lawns or turf only. In Maryland, apply this product at no more than 0.7 lbs. Nitrogen per 1,000 sq. ft.
- **In New Hampshire**, No turf fertilizer sold at retail shall exceed 0.9 pounds per 1,000 square feet of total nitrogen per application when applied according to the instructions on the label. No turf fertilizer shall exceed an annual application of 3.25 pounds per 1,000 square feet of total nitrogen when applied according to the instructions on the label. No fertilizer sold at retail that is intended for use on newly established or repaired lawns, or for lawns testing deficient in phosphorus shall exceed an application rate of one pound per 1,000 square feet annually of available phosphate.
- **In Florida:** it is recommended that the user of this product follow the Green Industries and Golf Course Best Management Practices found at:  
[http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/BMP\\_Book\\_final.pdf](http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/BMP_Book_final.pdf); <http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/glfbmp07.pdf>

Turf (Including but not limited to golf courses, commercial, residential, sports turf, sod farms, parks): Apply at 0.25 lbs – 3 lbs per 1000 square feet. Apply every 7-21 days or as needed to achieve desired result.

Ornamentals (including but not limited to greenhouses, nursery, landscapes, transplanted crops): Apply at 5-15 lbs per 100 gallons. In a backpack sprayer mix 1-3 teaspoon to 1 gallon of water. Apply every 14-21 days or as needed to achieve desired result.

Other Crops (including but not limited to herbs, vegetables, fruit, nuts, hops): Apply at 5-15 lbs per 100 gallons. In a backpack sprayer mix 1-3 teaspoon to 1 gallon of water. Apply every 14-21 days or as needed to achieve desired result.

Gravity S 16-3-16 lbs/1000 sq. ft.	Total N Rate lbs/1000 sq. ft.	Total Ammonical N Rate lbs/1000 sq. ft.	Total Nitrate N Rate lbs/1000 sq. Ft.	P <sub>2</sub> O <sub>5</sub> Rate lbs/1000 sq. ft.	K <sub>2</sub> O Rate lbs/1000 sq. ft.
0.25	0.040	0.009	0.032	0.008	0.040
0.5	0.080	0.017	0.063	0.015	0.080
1	0.160	0.034	0.126	0.030	0.160
2	0.320	0.068	0.252	0.060	0.320
3	0.480	0.102	0.378	0.090	0.480
4	0.640	0.136	0.504	0.120	0.640

Ounces of Product needed to mix one gallon of concentrate

Injector Ratio	100 (N/PPM)	150 (N/PPM)	200 (N)PPM	300 (N/PPM)	500 (N/PPM)
1:100	8.3	12.5	16.7	25.0	41.7
1:200	16.7	25.0	33.3	50.0	83.3
1:300	25.0	37.5	50.0	75.0	125.0

A number of variables influence the rate of application necessary to prevent or correct a specific deficiency. For best results, follow good agronomic practices and conduct soil and tissue tests. Additional fertility may need to be supplied from other sources. For specific recommendations for your plants, consult your state's recommendations or your local plant expert.

**MIXING INSTRUCTIONS**

Agitation will aid in getting the product to go into solution. If carrier water is cold, user may need to pre-mix the soluble fertilizer with warmer water in a separate container prior to adding it into the sprayer.

**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.

Gravity® is a registered trademark of Winfield Solutions, LLC.