



BREAKOUT®

Optimal Growth Manager

Guaranteed Analysis 4-14-3

Total Nitrogen (N).....	4.00%
0.55% Ammoniacal Nitrogen	
3.45% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	14.00%
Soluble Potash (K ₂ O)	3.00%

Derived From:

Urea, Phosphoric Acid, Potassium Carbonate, Ammonium Sulfate

Additional Contents:

Micro Carbon Technology®*

Physical Properties:

Form: Liquid

Appearance: Hazy dark brown, having a slight characteristic odor.

Weight: 10.77 lb/gal, 1.20 kg/L

pH: 1.5–2.5

Caution:

Keep out of reach of children.

Harmful if swallowed. May cause severe skin burns and eye damage.

Storage and Disposal:

Keep product in original container. Do not transfer into food or drink containers. Triple rinse when empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations. Do not store this product below 50°F (10°C) or above 90°F (30°C).

Conditions of Sale:

The information contained in this bulletin is believed to be accurate and reliable. Buyer and user acknowledge and assume all liability resulting from the use of this material. Follow directions carefully. Timing, method of application, weather, turf conditions, and other factors are beyond the control of the seller.

For Improved Root Structure and Vigor

HUMA GRO® TURF BREAKOUT® is a unique blend of foliar nutrients, polysaccharides, and carbohydrates engineered to promote horizontal turf growth, build a stronger root system, and develop healthier turf. Micro Carbon Technology®* is included to ensure better deliverability of nutrients to plants.

Benefits of Use:

- Provides energy needed to push turf uniformly
- Promotes lateral development of root system
- Rapid fill-in of divots and ball marks
- Accelerates the emergence of turf
- Provides phosphorus needed to ensure root vigor and lateral development of turf and plants
- Can be used to acidify/buffer spray solutions (pH 1.7–2.7)

Deficiency Symptoms—When to Apply:

- Shallow root system
- Bare spots in turf
- Slow and/or poor growth

Application Instructions:

SHAKE WELL BEFORE USING. Designed to be either soil and/or foliar applied. Contents are highly concentrated and must be diluted with water in a ratio of at least 20 parts water to 1 part product prior to foliar application. Best results will be obtained when application is concentrated in the active root zone or on the leaf surface. BREAKOUT® can be applied in combination with compatible plant growth regulators, pesticides, or other liquid fertilizers. If compatibility is in question, jar-test a small quantity. Applications can be made as often as every 7 to 10 days as needed. See table below for specific rate instructions.

METHOD OF APPLICATION	Rate per 1,000 ft ² , 100 m ²	Rate per Acre, Hectare
Foliar broadcast spray or fertigated through sprinkler system	Up to 2 oz/1000 ft ² , 70 mL/100 m ²	Up to 2 qt/ac, 5 L/ha
Soil broadcast spray incorporated	Up to 3 oz/ 1000 ft ² , 105 mL/100 m ²	Up to 1 gal/ac, 10 L/ha



Powered by
**MICRO CARBON
TECHNOLOGY**

**This Product Contains Micro Carbon Technology®, a proprietary blend of very small organic molecules that allows for more effective absorption of nutrients by plants.*

