



# 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 <sub>2</sub> O <sub>5</sub> ).....	14.00%
Soluble Potash (K <sub>2</sub> O).....	3.00%

### Derived From:

Urea, Phosphoric Acid, Potassium Carbonate, Ammonium Sulfate.

### Also Contains Non-Plant Food Ingredient:

11.5% Organic Matter (derived from leonardite)

### Physical Properties:

Form: Liquid

Appearance: Clear to slightly 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. The vapors, mists and liquid may cause severe irritation or burns to all tissues contacted. Phosphoric acid may generate flammable hydrogen gas on contact with most metals.**

### 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, crop conditions, and other factors are beyond the control of the seller.

## The Solution for Improved Flowering and Fruiting of Plants

Huma Gro® BREAKOUT® carbon-complexed with Micro Carbon Technology® is designed to feed the natural metabolic process within the plant for enhanced bud initiation, flowering, and fruit set. When applied to soils, BREAKOUT® is effective at providing needed nutrients for fibrous root growth and enhanced root mass development.

### Benefits of Use:

- Provides energy needed to push “bud-break” uniformly
- Accelerates the emergence of fruiting buds
- Provides energy needed to promote uniform flowering, increasing the number of flowers and improving fruit set
- Can be used to acidify/buffer spray solutions (pH 2.0)
- May be applied with other foliar nutrients for maximum effect on flowering and fruit set
- Can be used at seeding or when transplanting to maximize new root growth

### Deficiency Symptoms—When to Apply:

- Non-uniform bud emergence of crops
- Light fruit set
- Slow emergence of fruiting buds
- Leaf-burn or phytotoxicity

### Application Instructions:

See table below for specific rate instructions. Do not apply this product foliarly in concentrations greater than 5%. SHAKE WELL BEFORE USING.

METHOD OF APPLICATION	SUGGESTED RATE	
	Field Crops / Tree or Vine Crops	
Foliar band application at 50% coverage	Up to 1 quart/acre, 2.5 liters/hectare	—
Foliar broadcast or sprinklers: solid, set, pivot, linear (100% speed)	Up to 2 quarts/acre, 5 liters/hectare	Up to 1 gallon/acre, 10 liters/hectare
Soil banded or injected, through drip tape or micro sprinklers	Up to 2 quarts/acre, 5 liters/hectare	Up to 1 gallon/acre, 10 liters/hectare
Soil broadcast spray incorporated, flood or furrow irrigated	Up to 1 gallon/acre, 10 liters/hectare	Up to 2 gallons/acre, 20 liters/hectare



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