



ZAP[®]

Product Technical Bulletin

Guaranteed Analysis 8-0-0

Total Nitrogen (N).....	8.00%
3.00% Ammoniacal Nitrogen	
2.00% Nitrate Nitrogen	
3.00% Urea Nitrogen	
Sulfur (S) - Combined.....	0.10%
Iron (Fe).....	0.10%
0.05% Chelated Iron	
Manganese (Mn).....	0.05%
0.05% Chelated Manganese	
Zinc (Zn).....	0.05%
0.05% Chelated Zinc	

Derived From:

Urea, Ammonium Sulfate, Ammonium Nitrate, Iron HEDTA, Manganese EDTA and Zinc EDTA. Chelating agents are Hydroxyethylethylenediaminetriacetate and Ethylenediaminetetraacetate.

Physical Properties:

Form: Liquid
 Appearance: Dark brown
 Weight: 9.88 lbs. per gallon
 pH: 6.2 - 7

Additional Contents:

Micro Carbon Technology™*

Caution:

**Keep out of reach of children.
 Harmful if swallowed.**

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.

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.

Professional Solution for Building Healthy Soil

HUMA GRO[®] TURF ZAP[®] is an organic based formulation for the treatment of unhealthy soil conditions through improved beneficial soil biological balance. ZAP[®] promotes a strong, healthy soil biology resulting in the natural management of soil pathogens and parasitic nematodes.

ZAP[®] INDIRECTLY REDUCES THE EFFECT OF SOIL-BORNE DISEASES AND PLANT PARASITIC NEMATODES BY:

- Improved plant health and disease resistance.
- Beneficial competitive exclusion of soil pathogens and nematodes.
- Rapid improvement in beneficial soil microbial activity.
- Establishment of soil biological balance and species diversity.
- Reduced need for chemical pesticidal controls.

HOW ZAP[®] WORKS:

- Effect on the soil environment surrounding roots: ZAP[®] enhances activity of beneficial microbes detrimental to soil-borne diseases and plant-parasitic nematodes.
- Effect on the plant: ZAP[®] improves root growth and as a result reduces susceptibility to secondary root infections.

Application Instructions:

Contents are highly concentrated and must be diluted with water in a ratio of at least 10 parts water to 1 part product prior to application. See table below for specific rate instructions. SHAKE WELL BEFORE USING.

Method of Application	Rate	Frequency of Application
Soil Applied	up to 9 oz per 1,000 sqft	15 days or more
Fertigation	up to 9 oz per 1,000 sqft	15 days or more



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