



ZAP[®]

Sustainable Soil Fertility

Guaranteed Analysis 8-0-0

Total Nitrogen (N).....	8.00%
3.0% Ammoniacal Nitrogen	
2.0% Nitrate Nitrogen	
3.0% Urea Nitrogen	
Sulfur (S) - Combined.....	1.00%
Iron (Fe).....	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn).....	0.05%
0.05% Chelated Manganese (Mn)	
Zinc (Zn).....	0.05%
0.05% Chelated Zinc (Zn)	

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: Hazy brown, having a unique characteristic odor
 Weight: 9.18 lb/gal, 1.00 kg/L
 pH: 4.0–5.0

Caution:

Keep out of reach of children.
Harmful if swallowed. Liquid and mists may be irritating to the eyes and skin. Inhalation of mists may be irritating to the entire respiratory tract.

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.

The 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 through:

- Improved turf 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 turf: ZAP[®] improves root growth and as a result reduces susceptibility to secondary root infections.

Application Instructions:

SHAKE WELL BEFORE USING. 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. Designed to be applied to the soil. Best results will be obtained when application is concentrated in the root zone. Can be applied in combination with compatible plant growth regulators, pesticides, or other liquid fertilizers. See table below for specific rate instructions.

METHOD OF APPLICATION	SUGGESTED RATE	
	per 1000 ft ² (100 m ²)	per Acre (Hectare)
Foliar broadcast spray or fertigated through sprinkler system	Up to 6 oz/1000 ft ² , (210 mL/ 100 m ²)	Up to 2 gal/ac, (20 L/ha)
Soil broadcast spray incorporated	Up to 9 oz/1000 ft ² , (315 mL/ 100 m ²)	Up to 3 gal/ac, (30 L/ha)



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

