

BuRIZE™ NTC - Nursery and Turf VA Mycorrhizal Soil and Root Inoculant

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Olivas, J. 1996. BuRIZE™ NTC-Nursery and Turf VA Mycorrhizal Soil and Root Inoculant. In: Landis, T.D.; South, D.B., tech. coords. National Proceedings, Forest and Conservation Nursery Associations. Gen. Tech. Rep. PNW-GTR-389. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station: 233-234. Available at: <http://www.fcanet.org/proceedings/1996/olivas.pdf>

BuRIZE™ NTC contains the Vesicular Arbuscular Mycorrhizal (VAM) fungi found naturally in healthy soils. VAM colonization of plant roots are key contributors to the growth of many varieties of woody shrubs, nonconiferous trees, ornamental plants, and turf. The VAM found in BuRIZE™ NTC are from Endomycorrhizae, which are able to colonize 90% of all plants. VAM fungi form a beneficial symbiotic relationship with plants, bringing in additional water and nutrient for plant growth. The plant in turn "shares" the additional photosynthate (carbohydrates and vitamins) production with the VAM fungi. Through colonization of plant root cortical cells and growth of hyphae through the roots into the surrounding soil, VAM fungi increase the surface area of the root. This expanded root surface area increases the nutrient and water uptake potential of the plant.

Many of today's high input agriculture production practices, including fumigation, steam sterilization, artificial growth media, and reduced organic matter inputs, inhibit the growth of VAM fungi. Application of BuRIZE™ NTC gives the user an added jump start on growth by allowing early recolonization by these beneficial fungi.

MIXING INSTRUCTIONS

BuRIZE™ NTC is not ready for use until BuRIZE™ NTC and BuRIZE™ Dry Concentrate are mixed together. Mixing should take place just prior to application. Combine ingredients at the concentrations specified by BuRIZE™ Dry Concentrate label and shake, stir or agitate for five minutes before use. BuRIZE™ NTC is ready for use after mixing and when the liquid has turned green in color. Do not use BuRIZE™ NTC if liquid is not green in color.

INCOMPATIBILITIES

Always jar test newly attempted mixes. Avoid strongly acidic/basic conditions and high concentrations of free ammonia. Do not mix with liquid ammonia, sulfuric acid, urea sulfuric acid, phosphoric acid, soil fumigants, or soil fungicides. No other known incompatibilities.

DIRECTIONS FOR USE

For use as a Vesicular-Arbuscular Mycorrhizal soil and root Inoculant, apply in close proximity to the seed and newly developing root system. When used in transplant operations, apply as a "root dip," "drench," or mix BuRIZE™ NTC with the transplant water/ fertilizer solution (see directions for application). As the use of BuRIZE™ NTC may affect crop nutrient response through increased root surface area, caution should be exercised when applying BuRIZE™ NTC with fertilizers to prevent "fertilizer salt" induced phytotoxicity. Where fertilizer salts are the combination of nitrogen, potassium and metal salts, do not exceed 5 lb of total salt on the seed and/or 10 lb of salt per inch away from the seed and roots. Where warranted, adjust fertilizer rates and replace with a maximum of a 1:1 ratio of up to 15 gallons of BuRIZE™ NTC/acre/application.

GENERAL USE DIRECTIONS

Use 5-15 gallons per acre early in the growing season, or as needed. As this product is of benefit to plant roots: **Applications of high placement accuracy will allow lower rates, while low placement accuracy will necessitate a higher rate.**

Typical product characteristics

Statement of composition:

<i>Glomus intraradix</i>	2.00 propagules/cc
Weight per gallon	8.40 lb.

TURF

Apply as a broadcast application at 0.5 to 1.25 quarts per 1000 square feet in enough water to ensure movement into the root zone.

NURSERY AND ORNAMENTAL

Media inoculant - drench - Apply 10 to 24 ounces per cubic foot of media just prior to planting. Soil drench - Apply 11.73 ml per square yard, or a 15 gallons per acre equivalent. Apply in sufficient water for coverage without excess leaching.

Transplanting - Apply as a root dip in full strength solution, or dilute as a drench to the transplant site.

Call 1-800-BUCKMAN for more information or technical assistance concerning use rates for crops not covered in this label.

STORAGE AND HANDLING

As packaged material, shake, stir or agitate before use. Store in a cool dry place. When handled in bulk quantities, storage in a cone-bottomed tank to facilitate agitation is recommended.

When stored in a cone-bottomed tank, agitate 10 minutes prior to shipment. When stored in a flat-bottomed tank, agitate 1 hour before shipment. Avoid air blast agitation as foaming will result. If foaming does occur through normal agitation, use Harcross Chemical AF10FG defoamer. Agitation is recommended once every month. Storage for longer than 6 months is not recommended.

Follow appropriate safety procedures. In case of accidental exposure, flush with plenty of water. Product is D.O.T. nonhazardous.

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