DUTCH TRIG

Biological vaccination for American elms to prevent Dutch elm disease
For use by Professional Arborists/Applicators

This label must be in the possession of the user at the time of application

(Directions for Use Cont.)

GENERAL INFORMATION

• Dutch Trig® contains conidiospores of the hyaline form of Verticillium isolate WCS 850. Dutch Trig® is a biological treatment used to prevent Dutch elm disease based on the process of optimizing the tree's natural mechanisms to stop a Dutch elm disease (DED) infection, called induced resistance.
• Dutch Trig® is injected in the trunk of the elm in the early spring after bud break with the Tree Care Innovations gouge pistol. The Tree Care Innovations gouge pistol is the closed system in which spores of Verticillium - isolate WCS 850 are injected from the sealed vial into the trunk of an elm. The vaccine induces the tree's immune system to respond; there is no direct interaction between the DED fungus and Dutch Trig® of any kind.

APPLICATION INSTRUCTIONS

GENERAL: • Keep Dutch Trig® refrigerated at 33° to 40°F from receipt until shortly before use. • Transport Dutch Trig® in a portable refrigerator to the treatment location. • Application of Dutch Trig® may only be executed with Tree Care Innovations gouge pistol. • Only inject healthy elm trees which show no signs of Dutch elm disease for Dutch Trig® has no curative properties.

TREATMENT: • Remove the plastic cap of the vial. • Place aluminum cap with silicone membrane on the vial. Shake vial gently before use. • Load the vial containing Dutch Trig® into the injector. • Place one injection every 10 cm (approximately 4 inches) of tree circumference. Make injections in the bark fissures. • Make the injections at a comfortable waist height. • Push the chisel through the bark with the tip pointing downwards under a slight angle (see picture) up to the point where resistance is encountered (xylem tissue). Do not push the chisel further into the tree. • Inject one drop of product with one slow and full pull of the trigger. The total volume depends on tree size. • Twist the gun slightly sideways to create an opening. The vaccine will be sucked into the tree through the xylem tissue. • Clean the chisel with rubbing alcohol when moving from site to site to prevent the possible spread of other diseases.

TIMING: • Injections must be made after bud break but before full leaf. • Only inject if there is uptake of the liquid into the tree. • Inject during daytime. • Do not inject when it is raining.

STORAGE STABILITY: • Do not use Dutch Trig® after the expiration date (see exp. date on vial). • When a vial has been opened for use, continue to keep cool between treatments and during storage. Once opened, use all product within 24 hours. If opened vial is not refrigerated, use contents within 8 hours. • The contents of the vial should appear clear. If a whitish growth or other discoloration appears, do not use.

NOTES: • Dutch elm disease control is most effective when Dutch Trig® is used in conjunction with other cultural practices recommended for prevention (checking trees for symptoms during the growing season, removal of dead and diseased elm trees and severing of root grafts between healthy and infected trees). • The Dutch Trig® treatment provides protection against Dutch elm disease for the current year only. • To ensure ongoing protection, repeat application every year. • Dutch Trig® has no curative properties and will not cure trees that are already infected.

WARRANTY – Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than indicated on the label. User assumes all risks of use, storage, or handling not in strict accordance with label instructions.
Dutch Trig®

ACTIVE INGREDIENT:
Verticillium isolate WCS850* ............................ 1.0%
OTHER INGREDIENT
Distilled water ..................................... 99.0%
TOTAL .......................................... 100.0%
*Product contains at least 8.0 x 10^6 conidia per ml of formulated product

CAUTION
Keep Out of Reach of Children

EPA Reg. No. 83170-1
EPA Est. No. 83793-NLD-001

See Box Label for Precautionary Statements and Complete Directions for Use