GALLTROL - A

BIOLOGICAL INOCULANT OF CROWN GALL DISEASE
A bacterial inoculant which aids the control of crown gall on certain fruit, nut and ornamental nursery stock. For prevention of crown gall infection in the nursery, orchard and on certain bare-root seedlings, liners and planting stock. For use on non-food and non-planting only. Under disease conditions application of GALLTROL to susceptible plant tissue in suitable dosages (or number of colony-forming cells per unit area of host plant to be protected) may act as a systemic control of crown gall for one or more growing seasons in the field or greenhouse (glasshouse). Keep treated plants from drying during handling.

ACTIVE INGREDIENT:
Agrobacterium radiobacter (Strain 84) 1.2 x 10⁹ cfu/plate (Equivalent to 1 liter of 1.2 x 10⁹ cells per ml)
INERT INGREDIENTS: cellulose flake

PRECAUTIONARY STATEMENTS

“HAZARDS TO HUMANS AND DOMESTIC ANIMALS”

“Keep out of Reach of Children”

CAUTION—AVISO

Precaution al usuario: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

Causes moderate eye irritation. Avoid contact with skin and clothing.

Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE): Applicators and other handlers must wear: long sleeved shirt and long pants, waterproof gloves, shoes plus socks.

User Safety Recommendations: User: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Working clothing immediately if pesticide gets inside. Wash thoroughly and put on clean clothing.

First Aid: If in eye. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment or advice.

Environmental Hazards: Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Manufactured in U.S.A. by AgBioChem, Inc.
3 Fleetwood Ct., Orinda, CA 94563
Fax: (925) 284-0186

EPA Est. No. 040230-CA-001
EPA Reg. No. 40230-1
Lot NO.
Date Mfd.
Expiration Date
Perishable- use within 120 days held refrigerated.

www.crowngall.com

DIRECTIONS FOR USE (continued)

For use on the seeds, roots and stems of certain plants susceptible to crown gall infection: non-beating almond, apple, apricot, blueberry, caneberry, cherry, grape, kiwi, nectarine, peach, pear, pecan, plum, pruner, walnut, walnut and ornamentals—Euonymus, rose, weeping cherry, willow, poplar, clematis, etc. (Note: resistant strains of crown gall bacteria may be found.)

General: GALLTROL is used at the rate of bacteria from 1 plate per gallon of water (unchlorinated). Remove the mass of bacteria from the agar surface by scraping and mix with water in a clean bucket for dip or hand spray. Rinse the plate free of bacteria and use immediately. Discard agar. Plants should be treated soon after each handling which causes new wounds. Wash roots, clean the pruner, clean and prune broken roots, if possible, before treating. Prepare new GALLTROL suspension whenever it becomes excessively dirty or after every 1000 seedlings. Prepared dip held for more than 2 days should be discarded.

Germinating Seed Application: Almond, apple, apricot, cherry, kiwi, nectarine, peach, pear, plum, prune, walnut, weeping cherry. Apply by dipping seed in GALLTROL immediately prior to planting in seed bed. Use bacteria from 1 plate to a gallon of water.

Seeding Application: Almond, apricot, blueberry, cherry, grape, kiwi, nectarine, peach, pear, pecan, plum, prune, caneberry* walnut, and ornamentals (Euonymus, rose, weeping cherry, etc.) Dip or hand spray** clean seedlings in GALLTROL suspension until wet. Plant out immediately, if possible, and prevent the seedling from dying. Use bacteria from surface of 1 agar plate to a gallon of water.

Cutting Application: Almond, apricot, blueberry, cherry, grape, kiwi, nectarine, peach, plum, prune, caneberry*, walnut and certain ornamentals (Euonymus, rose, weeping cherry, etc.) Dip or hand spray** clean basal ends in GALLTROL mix. Use bacteria from surface of 1 agar plate to a gallon of water. Treat before and after cold storage for at least 2 weeks. Do not use on plant tissue in the greenhouse.

Root and Stem Application: Almond, apple, apricot, cherry, grape, kiwi, nectarine, peach, pear, pecan, plum, prune, caneberry*, walnut, and ornamentals. Euonymus, rose, weeping cherry, etc. Bare-root stock should be dipped or sprayed (saturated) with GALLTROL mix to cover roots and stem above bud or graft union. Use bacteria from 1 agar plate per gallon of water, with no agar. Approximately 1000 seedlings (1/4" caliber) may be treated with a gallon of GALLTROL bacterial suspension on large bareroot bareroot stocks per 2-3 feet of length up to 1000 plants. Treat before and after cold storage and within 24 hrs. of lifting.

Soil Drench Application: If dipping or hand spraying** of seeds, cuttings, seedlings and container transplants was not possible prior to planting, they may be protected by drenching the soil surrounding the stem and root zone with GALLTROL water suspension. Plant material susceptible to crown gall infection may be treated after planting by drenching the planting site with bacteria from 1 agar plate of GALLTROL in 5 gallons of water. Use about 8-8 fl. oz. of this suspension of GALLTROL per 4 liter container or one foot of plant row. The GALLTROL bacteria must be soaked into the soil and root zone with 1/2-1 inch of water immediately after drenching or hand spraying** the soil surface.

blackberry, boysenberry, raspberry, youngberry, **small hand-operated sprayer - coarse spray with large droplets.

WARRANTY
NOTICE: Neither Manufacturer nor Seller makes any warranty, expressed or implied, after results from the use of this product, other than as indicated on this label. Buyer assumes all risks of use, storage and handling including death and damage to materials not in strict accordance with directions contained on label.

READ LABEL BEFORE USING

Revised 11/01/02 Revised 10/21/03 Revised 08/15/04

STORAGE AND DISPOSAL
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. Pesticide Storage: Store GALLTROL-A containers closed in a plastic bag under refrigeration (35-40 °F) until ready for use. For best results use as soon after receipt as possible. Do not use after 120 days. GALLTROL-A bacteria may be inactivated by freezing or high temperatures. Shipment and handling is carefully controlled. Contact with anything that has been treated, such as plants, soil, or water, is: coversalls and shoes plus socks and waterproof gloves.

CONTAINER DISPOSAL: Securely wrap petri dishes and packaging in newspaper and dispose of these in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay away from smoke. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. GALLTROL-A集装箱 media are depleted and inactive after use. The unsterile agar media and plates should be disposed of through normal channels for non-toxic, non-burnable household wastes. DO NOT REPACKAGGELTROL.

ADVICE—For best results from GALLTROL: Use GALLTROL as soon after receipt as possible; however, do not use after 120 days under refrigeration (35-40 °F). Do not use if frozen or allowed to get hot or dry. When preparing dip or spray suspensions of GALLTROL, use clean containers and uncontaminated water free of copper, zinc or bactericides materials to avoid loss of potency. After application, do not wash or remove the bacterial suspension from plants. GALLTROL bacteria may be inactivated by freezing or high temperature, sunlight and desiccation. Sunlight should be excluded from the plates; dip or spray treated stock prior to planting. Pre-existing gall infection is not controlled by GALLTROL.

DIRECTIONS FOR USE
WORKER PROTECTION
It is a violation of Federal law to use this product in a manner inconsistent with the labeling. Wear shoes, rubber gloves, long pants, shirt, cap when applying. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS
Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handles of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exemptions pertaining the the requirements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box apply to uses of this product that are covered by the Workers Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standards and that involves contact with anything that has been treated, such as plants, soil, or water, is: coversalls and shoes plus socks and waterproof gloves.
BIOLOGICAL PREVENTION OF CROWN GALL DISEASE

CAUTION: Keep out of Reach of Children

INSTRUCTIONS FOR USE:

1. Remove the lid & submerge agar plate in container of water.
2. Gently wipe off bacterial layer from agar surface. Don't break agar if to be used as a spray. Discard agar & dish.
3. Add water up to treatment volume (1 gallon per plate).
4. Agitate suspension to disperse GALLTROL bacteria.
5. Add suspension to sprayer or use directly as dip/spray.
6. Treat plants ASAP (max. 12 hours) after wounding.

STORE IN REFRIGERATOR - DO NOT FREEZE

READ FULL LABEL & INSTRUCTIONS FOR DETAILS

AgriChem, Inc., 33 Fleetwood Ct., Ontario, CA 91761

GalTrol-A

EPA Reg. No. 40209-1