

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

JAN 27 2003

Mr. David J. Hall
Agri-Chem
622 E. Myers Blvd.
Mascotte, FL 34753

Subject: Chem-Tek 100
EPA Reg. No.: 43410-33
Submission dated Dec 12, 2002

Dear Mr. Hall:

The revised product labeling referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided you:

- Revise 2-(4-thiazolyl benzimidazole to 2-(4-thiazolyl) benzimidazole in the active ingredient listing on page 1.
- The restriction "Manual seed tuber treatments are prohibited." must appear in the "Potatoes" section as the last sentence. This section discusses "seed tubers" and reflects the same use pattern/exposure as a seed treatment.

Submit one copy of the revised final printed label before releasing the product for shipment. A stamped copy of the label is enclosed for your records. If you have questions, please contact Dennis McNeilly at (703) 308-6742 or electronically at mcneilly.dennis@epa.gov.

Sincerely,

Richard P. Keigwin, Jr.
for Cynthia Giles-Parker
Product Manager 22
Fungicide Branch
Registration Division (7505C)

Front Panel Text

Chem-Tek 100

Active Ingredients:

2-(4-thiazolyl benzimidazole)99.5%

Inert Ingredients: 0.5%

TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side Panel For Precautionary Statements

EPA Reg. No. 43410-33

EPA Est. No.

Agri-Chem

Mascotte, FL 34753

Net Contents ____ lbs. ____ oz.

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

JAN 27 2003

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.**

43410-33

Left Side Panel Text

Text in Box –Begin Box

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid Contact with skin, eyes or clothing. Avoid breathing dust. Wear chemical resistant gloves and protective clothing when handling. (PPE). Users should wash hands before eating, drinking, chewing gum, tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticides get inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

First Aid

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

IF IN EYES: 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 poison control center, or doctor immediately for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment .

HOT LINE NUMBER

For 24 hour Medical Emergency Assistance (Human Or Animal) Or Chemical
Emergency Assistance (Spill, Leak, Fire Or Accident) CALL 1-800-888-8372

Personal Protective Equipment (PPE)

Mixers, loaders, applicators, and other handlers must wear:

- Long sleeve shirt and long pants
- Shoes, plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

Do not apply Directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters, unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting Authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

Do not store or use in presence of fire, sparks or spark producing devices. Dust may ignite explosively.

Text in Box –End Box

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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 area during application.

Text in Box –Begin Box

Agricultural Use Requirements

Do not enter or allow workers 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 Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls,
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material.

Text in Box –End Box

Text in Box –Begin Box

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Storage: Store at ambient temperature in a dry place.

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal.

Wastes resulting from the use of this product must be disposed of in accordance with Federal, State and local procedures under the Resource Conservation and Recovery Act. Contact your state pesticide or Environmental Control Agency, or the Nearest Regional office for guidance.

Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities. If burned stay out of smoke.

Text in Box –End Box

Right Side Panel Text

PRODUCT DIRECTIONS

PAINTS - Incorporate Product with the Titanium oxide in the pigment grind for all paint systems.

Use Product in the paint formulation at the rate outlined in the table below. Quantities given are in pounds per 100 gallons of paint.

INTERIOR PAINTS

TT-P-0029 latex flat	1/10 - 1/4 lb.
TT-P-650 latex primer	1/4 - 1/2 lb.
New York City Housing Authority coatings	1/4 - 3/4 lb.
Sanitary latex semigloss	1/2 - 1 lb.
Oleoresinous interiors	1/2 - 1 lb.

EXTERIOR PAINTS

Zinc oxide pigmented latex	1/4 - 3/4 lb.
PVA	1/2 - 1 lb.
Acrylic	1/2 - 1 lb.
Vinyl acrylic	1/2 - 1 lb.
Zinc oxide pigmented Alkyd and oil paint	1/2 - 1 lb.
Alkyd-modified latex	1 - 1 1/2 lb.
Oil house paint	1 - 1 1/2 lb.
Alkyd	1 - 2 lb.

NYLON CARPETING - Using conventional methods such as melt blending or spin finish application, apply 0.05 (spin finish) to 0.5% (melt blending) of Product based on the total weight of the material being used.

CANVAS TEXTILES - Dissolve Product in a solution of hydrochloric acid (or other suitable acid) at pH 3.5 or less. Use Product at the rate of 500-3000 ppm active ingredient based on the weight of the finished fabric. The fabric is passed through the solution until thoroughly wetted. The use of a wetting agent to aid the Product in penetrating is recommended.

FRUITS and VEGETABLES -

Prepare a suspension of Product by dispersing the appropriate amount in water with a wetting agent. Agri-Chem's WETTING AGENT T is recommended at the rate of 16 oz. per 100 gallons. Application may be made in postharvest waxes. When mixing in wax do not use a wetting agent.

When using as a dip; discard suspension when (1) it becomes dirty, (2) after it has been used 5 times or (3) when the volume becomes too low for use.

Use Product in suspension at the rate outlined below. Quantities given in the table are in ounces or pounds and ounces per 100 gallons of suspension. Maintain constant agitation of suspensions while in use.

DILUTION TABLE

Concentration	Weight of Product
200 ppm	2.7 oz.
1000 ppm	13.4 oz.
1500 ppm	1 lb 4.0 oz.
2000 ppm	1 lb 10.7 oz.
3000 ppm	2 lb 8.1 oz.
4000 ppm	3 lb 5.4 oz.
5000 ppm	4 lb 2.8 oz.

Note: Fungi may develop resistance to thiabendazole. If such tolerance is suspected, switching to a non-benzimidazole fungicide is advised. Check with your supplier if confirmatory tests are desired.

Where a range of treatments are given for a commodity. The lower value (dosage) is to be used when the produce is in optimum condition and innoculum levels are low. When fruit is delayed from harvest to treatment or innoculum levels in the packinghouse are high use the higher dosage.

BANANAS AND PLANTAINS - (Crown Rot): Treat dehedded fruit after it has passed through the delatexing operation by dipping or drenching with a 200 ppm suspension. When dipping, do not immerse for more than 5 minutes.

CITRUS - (Blue Mold, Green Mold, Stem End Rot): Apply a 1000 ppm suspension by spraying, dipping or drenching at the rate of one gallon per 5000 to 7000 pounds of previously washed and water eliminated fruit. If fruit is excessively wet at the applicator use a 2000 to 5000 ppm suspension.

For drenching unwashed fruit prior to degreening, use a 1500 ppm suspension in water. For washed lemons prior to storage, use 1500 ppm suspension in lemon storage wax. When applying in citrus shipping wax use 1000 to 2000 ppm and apply at the rate of one gallon per 8000 to 12,000 pounds of fruit. For sporulation control use 4000 to 5000 ppm.

PAPAYAS - (Peduncle Rot, Rhizopus Rot, Stem End Rot & Anthracnose): Spray harvested fruit with a suspension of 1000 to 2000 ppm Product. Apply to 8,000 to 10,000 pounds of fruit. Make only one application prior to packaging. When wax is used, use Product in the wax at 1500 to 3000 ppm.

POTATOES - (Fusarium Tuber Rot): Mist tubers on a conveyor line, with tumbling action, entering storage with a suspension of Product at one gallon of 1500 ppm to each 2000 lb. of tubers. If additional treatment is necessary before shipping and cutting the seed tubers, dip the tubers for 20 seconds, or mist at the same rate.

SWEET POTATO 'Seed Roots only' - (Black Rot, Foot Rot, Scurf): Dip the seed roots in a 4000 ppm suspension of Product for 1-2 minutes. Plant immediately. Discard the suspension when volume becomes too low or suspension becomes dirty. Manual seed treatments are prohibited.

ORNAMENTAL BULBS & CORMS - (Fusarium Basal Rot and Penicillium Blue Mold) Clean bulbs and corms prior to treatment. Then submerge completely in a dipping suspension of 1000 ppm Product. The temperature should be between 50 and 75° F. Treat within 24-48 hours of digging. For Fusarium (Bulbs and Corms): Dip bulbs 15-30 minutes, corms 15 minutes. For Blue Mold (Bulbs): Dip 10-15 minutes. Manual seed treatments are prohibited.

MANGOES -- Anthracnose (*Colletotrichum* spp.): Dip flood or spray a 1000 to 2500 ppm suspension of Product. When wax is used, Chem-Tek 100 may be incorporated into the wax. Spray harvested fruit at the rate of 8,000 to 10,000 pounds per gallon. When a dip treatment is used do not treat fruit for more than 30 seconds. Allow ample time for draining and drying before packaging. Make only one application prior to packaging.

POME FRUIT - Apples and Pears: (Postharvest Rots - *Botrytis* spp., *Penicillium* spp.): Dip, flood or spray harvested fruit with a 1000 ppm suspension of Product. Do not treat for more than 3 minutes. Treat only once either before or after storage. Drain fruit

thoroughly and do not rinse after treatment. When apple wax is used Product may be incorporated in the wax at up to 2000 ppm.

CARROTS- (Postharvest Rots - *Penicillium*, *Botrytis*, and *Fusarium* species): Dip carrots, before storage, for 5-10 seconds in a suspension containing 1500 ppm Product. Replenish the suspension when volume is too low or when it becomes dirty.

SUGAR BEETS - (Postharvest Rots - *Penicillium*, *Botrytis*, and *Fusarium* species): Mist sugar beet roots on a conveyor line as they enter storage with a suspension of Product, one gallon at 1500 ppm to each 2000 lb. of sugar beet roots. Roots should be treated within 72 hours after lifting.

CONSULT YOUR STATE AGRICULTURAL EXPERIMENT STATION OR EXTENSION SPECIALIST FOR FURTHER INFORMATION CONCERNING THIS PRODUCT IN YOUR AREA.

Seller warrants that this material conforms to the ingredient statement on the label and is reasonably fit for the purposes referred to in the Directions for Use. No other warranty, express or implied, is made. This includes any other express or implied warranty of FITNESS or MERCHANTABILITY, and no agent of Seller is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential damages, such as loss of profits or values.

