

US EPA ARCHIVE DOCUMENT

DATE: June 9, 1980

SUBJECT: EPA Registration Number: 239-2382  
Orthocide Soil Treater "X" : Caswell # 159

FROM: Deloris F. Graham *DFF 6/25/80*  
FHB/TSS *E 6/27/80*

TO: Henry Jacoby  
Product Manager (21)

Applicant: Chevron Chemical Company  
Ortho Agricultural Chemicals Division  
940 Hensley Street  
Richmond, CA 94804

Active Ingredients:

\*Captan . . . . . 9.5%  
Related derivatives . . . . . 0.5%  
Penlachloronitrobenzene . . . 10.0%

Inert Ingredients . . . . . 80.0%

\*N-[(trichloromethyl)thio]-4-cyclohexene -1,2-dicarboximide

Background:

A draft label, discussion sheet, human safety data, an offer to pay letters of authorization were submitted. Eye Irritation Study conducted by Chevron was also submitted. "Cite-All" method of support was used. This data is under Accession number 241922.

Recommendation:

- 1) Based on the Eye Irritation Study, FHB/TSS agrees that the signal word, "CAUTION", must be upgraded to the signal word "DANGER",
- 2) For future submissions, in the Eye Irritation Study 9 rabbits, 6 rabbits with treated unwashed eyes and 3 rabbits with treated washed eyes, must be used. Also, corneal irritation scores must be reported with severity and area scores separately listed. In the case of solids, the correct dosage for the eye irritation test is 100mg.

Label:

- 1) The appropriate signal word is "DANGER."

- 2) The statement "Avoid contamination of feed or foodstuff. Do not apply . . . . . feed or animals" must appear under the heading "Directions For Use."

Review:

- 1) Eye-Irritation Study: Chevron Chemical Company;  
February 12, 1980.

Procedure:

One-tenth milliliter (average weight 39mg.) of the solid test material was placed in the conjunctival sac of one eye in each of six New Zealand white male rabbits. Observations were made at 1, 24, 48 and 72 hours and at 7, 9 and 14 days.

Results:

At day 1, 6/6 animals had corneal opacity (1/6=1, 2/6=2, 3/6=3), iris irritation (6/6=1) and conjunctival redness (6/6=3); discharge (6/6=3); chemosis (5/6=3, 1/6=4). Corneal opacity and conjunctival redness and discharge persisted through day 7. Other symptoms included pannus in one animal on day 7.

Study-Classification:

Core Minimum Data. 9 rabbits, 6 rabbits with treated unwashed eyes and 3 rabbits with treated washed eyes. Also, corneal irritation scores must be reported with severity and area scores separately listed. In the case of solids, the correct dosage for the eye irritation test is 100mg.

Toxicity Category:

I - DANGER



# ORTHO

## ORTHO<sup>®</sup> SOILTREATER "X"

### (FUNGICIDE)

Active Ingredients	By Wt.
Capton	9.5%
Related Derivatives	0.5%
Pentachlorobenzene	10.0%
Inert Ingredients	80.0%
N-(1-methylchloromethylthio)-4-cyclohexene-1,2-dicarboximide.	

#### PRECAUTIONARY STATEMENTS 12 pt

TO HUMANS & DOMESTIC ANIMALS 12 pt

3 12 pt

ive to eyes. Causes eye damage. Do not get  
s. Wear goggles or face shield when handling.  
breathing of dust. Avoid contact with skin.  
thoroughly after handling.

#### ENVIRONMENTAL HAZARDS 12 pt

product is toxic to fish. Keep out of lakes,  
ns or ponds. Do not apply where runoff is  
y to occur. Do not contaminate water by clean-  
f equipment or disposal of wastes.

#### VIOLATIONS FOR USE

a violation of Federal law to use this product  
manner inconsistent with its labeling!

ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH  
TIONARY STATEMENTS AND DIRECTIONS, AND WITH  
CABLE STATE AND FEDERAL REGULATIONS.

#### STORAGE AND DISPOSAL 12 pt

##### UTIONS 12 pt

t contaminate water, food or feed by storage,  
sal or cleaning of equipment. Open dumping is  
bited.

##### CE 12 pt

pesticide in original container.  
in cool, dry place. Protective from excessive

##### SIDE DISPOSAL 12 pt

clude, spray mixture, or rinsate that cannot be  
or chemically reprocessed should be disposed of  
landfill approved for pesticides or buried in a  
place away from water supplies.

##### INNER DISPOSAL 12 pt

use of in an incinerator or landfill approved for  
side containers, or bury in a safe place.

##### FINAL 12 pt

ult federal, state or local disposal authorities for  
limited organ

KEEP OUT OF REACH OF CHILDREN 12 pt

DANGER 18 pt

STATEMENT OF PRACTICAL TREATMENT 12 pt

In case of eye contact, immediately flush eyes with  
fresh water for 15 minutes and get medical attention.

Note to Physicians: Emergency Information - call  
(415) 233-3737.

Avoid contamination of feed or foodstuffs. Do not  
apply under conditions involving possible drift to  
or contamination of food, forage, feed or animals.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

### NET WEIGHT

Chevron Chemical Company  
Orlho Agricultural Chemicals Division  
San Francisco CA 94119 Richmond CA 94804  
Product 2324 Made in U.S.A.  
Form 7029 G EPA Est. 239-CA-5

ORTHO<sup>®</sup> SOILTREATER "X" is a combination fungicide product to be incorporated into the soil of greenhouses, seed beds, or for incorporation into the planting furrow of certain field crops for the control of certain soil-borne diseases. As formulated, ORTHO<sup>®</sup> SOILTREATER "X" is intended for use as a dust or dry treatment. However, with additional time, it will go into water and can be used as a drench treatment for any of the following uses except Cotton.

**COTTON SEED**—Planter Box Application—Dump Off, Rhizoctonia, Seed and Seedling Rot; Acid, Ringed and Fuzzy Seed Use 2½ lbs per 100 sq ft. Apply to seed through planter box at time of planting. This is a supplementary treatment which can be used in addition to regular seed treatment. Recalculate seed rate after adding suggested dosage of ORTHO<sup>®</sup> SOILTREATER "X" to planter or drill box. Do not use treated seed for food, feed or oil.

**COTTON**—Furrow Planting Treatment—Dump-off, Rhizoctonia, Seed and Seedling Rot -10 to 12 lbs. per acre; Based on 1 row spacing. Apply in seed row at planting time, using attached dusting equipment. Calibrate equipment to apply 2½ to 2 oz. per 131 linear feet of row. Do not allow feeding or grazing of cotton foliage by livestock. Do not plant any crop not registered for PCNB in relation to PCNB treated soil.

**BEANS**: Root and Stem Rot -15 to 20 lbs per acre; based on 36 inch row spacing. Apply in the furrow and dust over the seed and surrounding soil as seeds are planted. Calibrate dusting equipment to apply 2½ to 3 ozs per 145 linear feet of row. Do not feed treated vines to livestock.

**PEPPERS**: Damping Off in Seed Bed—75 lbs. per acre (1 2/3 lbs per 1,000 sq ft.). Apply as a preplanting soil treatment by dusting over the trench before seeds are planted. Mix to a depth of 3 to 4 inches. For Field Seeded Peppers—Dust in seed furrow at planting time using 20 to 30 lbs. per acre (equivalent to 1½ to 2½ lbs. per 1,000 linear feet of single row with 40" row spacing).

**LAWNS**: Brown Patch, Dollar Spot—One day before treatment, mow lawn and irrigate if necessary. Day of treatment, after morning dew is off lawn, apply 1½ lbs per 1,000 sq ft. of lawn. Do not mow lawn or irrigate for 2 days following treatment. Under normal conditions, apply every 3 to 4 weeks. During periods of very wet or damp weather, repeat treatments every 10 to 14 days. On New Lawns begin treatments as soon as first seeds germinate and repeat every 10 days until lawn is well established.

**BULBIOUS IRIS**: Crown Rot, Black Rot -5 lbs per 100 sq ft. Spread on the soil surface and evenly distribute in the soil to a depth of 4 to 6 inches. Best results follow treatment in the fall of the year. **LARKSPUR, CALENDULA, SWEET PEA, SNAPDRAGON** - 1 lb per 100 sq ft. Stem Rot, Damping Off, Root Rot -2 lbs. per 100 sq ft. Spread evenly on the soil surface and mix to a depth of 2 inches before planting.

**CAMELIA**, Flower Blight—5 lbs. per 100 sq ft. Make application do any early winter and apply to the soil surface on leaf litter beneath the bushes. Continue application at weekly or bi-weekly intervals prior to and during the flowering season, especially following rains or damp weather.

**CANNATIONS, AFRICAN VIOLETS, FONSECIAS, CHRYSANTHEMUMS, BEGONIA**: Stem Rot, Damp-Off, Root Rot, B lbs per 1000 sq ft. Apply as a dust to the soil surface and thoroughly mix into the top 2 inches of soil.

**GREENHOUSE BENCH TREATMENT** on above crops for listed diseases - Work into upper 3 or 4 inches of soil before planting at rates given above.

**CONDITIONS OF SALE**: 1. Chevron Chemical Company (Chevron) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed herein. Chevron neither makes, nor authorizes any agent or representative to make, any other warranty of MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond Chevron's control prevent it from eliminating all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the use stated hereon and even though label directions are followed. Buyer must use acknowledge and assume all risks and