

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CASWELL FILE

CASWELL # 159

DATE: June 9, 1980

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

FROM: Deloris F. Graham *DFG 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^{and} 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 mill^{il}iliter (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[®] CIDE Soil Treater "X"

(FUNGICIDE)

Active Ingredients	By Wt.
Captan	9.5%
Related Derivatives	0.5%
Pentachloronitrobenzene	10.0%
Inert Ingredients	80.0%
N [1,1-dichloro-2,2-bis(4-chlorophenyl)ethane]-1,2-dichlorobenzene	

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
anner inconsistent with its labeling!

ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH
UTIONARY STATEMENTS AND DIRECTIONS, AND WITH
ABLE 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

CIDE DISPOSAL 12 pt

clide, 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

se of in an incinerator or landfill approved for
cide containers, or bury in a safe place.

UAL 12 pt

ult federal, state or local disposal authorities for
limited or

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

Ortho 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 CIDE Soil Treater "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
CIDE Soil Treater "X" is intended for use as a dust or dry treat-
ment. 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--Dust Off, Rhizoctonia,
Seed and Seedling Rot, Acid, Root Rot, and Fusarium. Use 2½
to 3 lbs. per acre. 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 CIDE Soil Treater "X" to
planter or drill box. Do not use treated seed for food, feed or oil.

COTTON: Furrow Planting Treatment--Dust-off, Rhizoctonia, Seed
and Seedling Rot -10 to 12 lbs. per acre. Based on
row spacing. Apply in seed row at planting time, using
attached doser 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 dosing equip-
ment to apply 2½ to 3 oz. per 145 linear feet of row. Do not
feed treated vines to livestock.

PEPPERS: Damping Off in Seed Bed--7½ lbs. per acre (1 2/3 lbs.
per 1,000 sq. ft.). Apply as a preplanting soil treatment by dust-
ing 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
seed 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 - Treat
in the fall, Stem Rot, Damping Off, Root Rot--2 lbs. per 1,000
sq. ft. Spread evenly on the soil surface and mix to a depth of
1 to 2 inches before planting.

CAMELLIA: Flower Blight--5 lbs. per 100 sq. ft. Make application
in 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, PANSIES, CHRYSANTHE-
MUMS, BEGONIA: Stem Rot, Damping Off, Root Rot, 8 lbs. per
1,000 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 unavoidable 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 herein and even though label directions are followed.
Buyer and user acknowledge and assume all risks and