

US EPA ARCHIVE DOCUMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: August 20, 1981

SUBJECT: EPA Registration Number 239-1046  
Ortho Soybean Seed Protectant: Caswell # 159

002039

FROM: Deloris F. Graham *DFG* 8/24/81  
FHB/TSS *E 8/25/81*

TO: Henry Jacoby  
Product Manager (21)

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

**Active Ingredient:**

Captan . . . . .	23.6%
Related Derivatives . . . . .	1.4%
Inert Ingredients . . . . .	75.0%

**Background:** Submitted Eye Irritation Study. Based on this study the company feels the signal word should be changed from CAUTION to DANGER. Eye Study is under Accession Number 245606. Cite-all method of support used.

**Recommendation:**

- (1) FHB/TSS finds this study acceptable to support conditional registration of this product.
- (2) The appropriate signal word as determined by the Eye Study is WARNING.

**Label:**

- (1) The signal word WARNING must appear on center front label.
- (2) The statements "Do not feed treated seed to animals. Do not use treated seed for human consumption. Seeds treated with ORTHO Soybean Seed Protectant, sold or shipped as feed or foodstuffs may be considered adulterated under State and Federal laws." must be deleted from precautionary statements and placed under Directions for Use.
- (3) The statement <sup>on</sup> "Treated seed must be labeled as follows: "TREATED SEED. DO NOT USE FOR FOOD, FEED OR OIL." must be deleted from precautionary statements and placed in Directions for Use.

- (4) The statement of Practical Treatment must be revised to read:

"In case of eye contact immediately flush eyes with fresh water for 15 minutes and see a doctor. If swallowed, give large quantities of water and induce vomiting by placing fingers in back of throat, and call a doctor. For skin contact, wash with plenty of soap and water. See a doctor if irritation occurs or rash develops. Note to Physicians: Emergency Information - call (415) 233-3737.

- (5) Under the heading "Environmental Hazard" the statement "Keep out of lakes, streams or ponds" must be revised to read "Do not apply directly to lakes, streams or ponds."

Review:

- (1) Eye Irritation Study: Chevron; Socal 1537/39:140, June 6, 1980.

Procedure: Nine New Zealand white rabbits received 0.1 ml (33.3 mg) of the solid material in one eye each. Three of the treated rabbit eyes were rinsed for 1 minute, 30 seconds after treatment. Observations made at 1 hour, 1, 2, 3, 4, 7, 10, 14, 17 and 21 days after treatment.

Results: At day 1, 6/6 animals of unwashed group had corneal opacity (5/6 = 10, 1/6 = 15); 4/6 iris irritation (4/6 = 5); 6/6 redness (6/6 = 3), chemosis (3/6 = 2, 3/6 = 3), discharge (5/6 = 2, 1/6 = 3). At day 4, 1/6 had corneal opacity (1/6 = 20); 1/6 iris irritation (1/6 = 5) and 6/6 redness (5/6 = 2, 1/6 = 3); 1/6 chemosis (1/6 = 1); 3/6 discharge (3/6 = 1). At day 7, 1/6 corneal opacity (1/6 = 15), panus observed in this animal. No iris irritation; 5/6 redness (5/6 = 1), 4/6 discharge (4/6 = 1). At day 14, 1/6 corneal opacity (1/6 = 10) no conjunctive irritation. At day 21, 1/6 corneal opacity (1/6 = 10); no other irritation.

At day 1, 3/3 animals of washed group had redness (3/3 = 2), chemosis (3/3 = 1), and discharge (3/3 = 1). No corneal opacity. At day 4, 2/3 redness (2/3 = 1). At day 7, no irritation.

Study Classification: Core Guideline Data.

Toxicity Category: II-WARNING

PRECAUTIONARY STATEMENTSHAZARDS TO HUMANS & DOMESTIC ANIMALSDANGER

Corrosive to eyes. Causes eye damage. May cause allergic skin reactions. Harmful if swallowed or inhaled. Do not get in eyes. Wear goggles when handling. Avoid contact with skin and clothing. Avoid breathing of dust or vapor. If conditions or frequency of use increase the potential of exposure, inhalation can best be avoided by wearing a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR, Part 11. Wash hands after use. Remove and launder clothing before reuse. Do not feed treated seed to animals. Do not use treated seed for human consumption. Seeds treated with ORTHO Soybean Seed Protectant, sold or shipped as feed or foodstuffs may be considered adulterated under state and federal laws. Treated seed must be labeled as follows: "TREATED SEED. DO NOT USE FOR FOOD, FEED OR OIL."

STATEMENT OF PRACTICAL TREATMENT

In case of eye contact, immediately flush eyes with fresh water for 15 minutes and see a doctor. If swallowed, give a large amount of water to drink, make person vomit, and call a doctor. For skin contact, wash with plenty of soap and water. See a doctor if irritation occurs or rash develops.  
Note to Physicians: Emergency Information - call (415) 233-3737.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

Directions for Use

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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COPY B

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12 p<sup>+</sup> Keep Out of Reach of Children

18 p<sup>+</sup> DANGER

See Side Panel for Additional Precautionary statements.

COPY C

STORAGE AND DISPOSAL 12 p<sup>+</sup>

PROHIBITIONS 12 p<sup>+</sup>

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.  
Open dumping is prohibited.

STORAGE 12 p<sup>+</sup>

Keep pesticide in original container.  
Store in cool, dry place.  
Protect from excessive heat.  
Do not store or transport near feed or food.

PESTICIDE DISPOSAL 12 p<sup>+</sup>

Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL 12 p<sup>+</sup>

Dispose of bags according to approved federal, state or local procedures under the Resource Conservation and Recovery Act.

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NOTE: This product is sold by weight and package is full when packed but due to fluid nature this material is inclined to settle

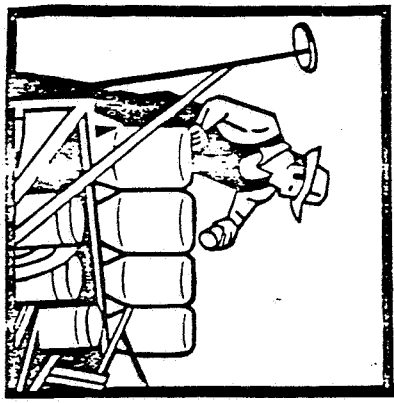
**READ CAREFULLY THE DIRECTIONS AND PRECAUTIONS ON THE LABEL AND FOLLOW THEM EXACTLY**

**DIRECTIONS**

For improved mixing of product with seed, the following procedure is suggested. Fill planter box only half full of seed, and half the required amount of ORTHO Soybean Seed Protectant and mix thoroughly with a stick. Then put remainder of seed in planter box and add the rest of the required ORTHO Soybean Seed Protectant, mixing thoroughly again. Good results are also obtained by premixing seed with ORTHO Soybean Seed Protectant in a suitable container, then pouring treated seed into planter box.

**SOYBEANS:** Use ORTHO Soybean Seed Protectant as a planter box treatment at the rate of 4 ounces per bushel or 7 ounces to 100 lbs. seed.

**PLANTS:** Use ORTHO Soybean Seed Protectant as a planter box treatment at the rate of 2 to 4 ozs. per bushel or 4 to 6 ounces per 100 lbs. seed.



# ORTHO Soybean Seed Protectant

(FUNGICIDE)

Contains 15% of Non-oil Lubricant

Active ingredients	By Wt.
• Captan	23.6%
• Related Derivatives	1.4%
• Inert Ingredients	75.0%
*N-(1-trichloromethyl) thio-1,4-cyclohexene-1,2-dicarboximide	

**B → CAUTION** - **READ THE LABEL OF EACH OF CHEMICALS** See label for additional cautions.

NET WEIGHT 50 POUNDS

ORTHO Soybean Seed Protectant is a specifically designed formulation of FUNGICIDE for the treatment of soybean and peanut seeds. Seed protection is afforded against seed-borne and soil-borne diseases such as seedling blights, damping off and seed decay organisms at planting time.

Designed specifically for seed protection at planting time, ORTHO Soybean Seed Protectant requires no additional seed handling to have seed treated. Thus, the percentage of treated seed is high. At recommended dosage rates, this product assures adequate seed coverage and allows any excess to flow down with the seed into the soil (arrow thus affording maximum protection). Can be used on previously treated seed.

**CAUTION:** Do not inhale dust. In case of eye contact, immediately flush with plenty of clear water. Get medical attention if eye irritation persists. Wash hands after use.

**NOTE TO PHYSICIANS:** Emergency Information - call (415) 233-3737.

**VOID CONTAMINATION OF FEED OR FOODSTUFFS:** Do not use treated seed for human consumption. Do not feed treated seed to animals. ORTHO Soybean Seed Protectant treated seeds sold or shipped as feed or foodstuffs may be considered adulterated under state and federal laws. Dispose of container promptly when empty. Do not reuse.

**TOXIC TO FISH:** Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning, maintenance or disposal of wastes. Apply this product only as specified on label.

**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 hereon. Chevron neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or 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 uses stated hereon and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Chevron under 1 above) resulting from handling, storage and use of this material.

**Chevron Chemical Company**  
1500 Northbrook Drive  
P.O. Box 1187  
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Product 2316 U.S. Pat. 2,819,411  
Form 2078 8-78 (Rev. 7/78) 5011  
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