

400-554

9-7-2007

1/4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

September 7, 2007

Allen Blem  
U.S. Registrations  
Chemtura Corporation  
199 Benson Road (2-4)  
Middlebury, CT 06749-0001

**Subject: Enhance Seed Protectant  
EPA Registration No. 400-554  
Reregistration Submission via E-mail Dated July 18, 2007**

Dear Mr. Blem:

EPA determined that you fulfilled the requirements of the Captan RED for the subject product. However, we are unable to reregister the product under FIFRA 4(g)(2)(c) at this time, because it also contains the active ingredient Carboxin. A reregistration eligibility decision was issued for carboxin in September 2004. This product will be reregistered once the data requirements have been satisfied for this product under the Carboxin RED.

Within 45 days from the date of this letter, submit one copy of the final printed label that incorporates the required changes below, before the product is released for shipment.

In the "Precautionary Statements" box under the PPE section delete "except when sewing bags of treated seed" attached to chemical resistant gloves.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e).

Your release for shipment of the product bearing amended labeling constitutes accepting of these conditions. One copy of the label stamped "Accepted with comments" is enclosed for your records. If you have any questions, please contact Tawanda Spears by phone at (703) 308-8050 or via email at [spears.tawanda@epa.gov](mailto:spears.tawanda@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish  
Product Manager (22)  
Fungicide Branch  
Registration Division (7505P)

2/4

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
SEP 7 2007

# Enhance®

SEED PROTECTANT

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No. 400-554 Net  
Contents:

Active Ingredients:

Captan* .....	19.55%
Related Derivatives .....	0.45%
Carboxin .....	20.00%
Other Ingredients: .....	60.00%
Total: .....	100.00%

\*N-trichloromethylthio-4-cyclohexene-1,2-dicarboximide

**KEEP OUT OF REACH OF CHILDREN**

**DANGER • PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

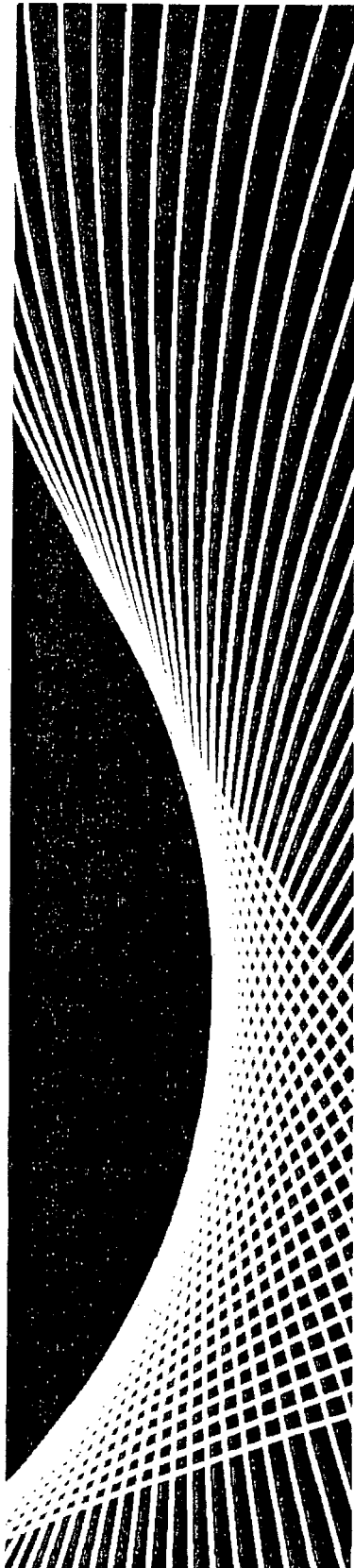
**FIRST AID**

- IF IN EYES:**
- Hold eye open and rinse slowly and gently with water for 15- 20 minutes.
  - Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye.
  - Call a poison control center or doctor for treatment advice.
- IF SWALLOWED:**
- Call a poison control center or doctor immediately for treatment advice.
  - Have the person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to do so by a poison control center or doctor.
  - Do not give anything by mouth to an unconscious person.
- IF INHALED:**
- Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.
  - Call a poison control center or doctor for further treatment advice.
- IF ON SKIN OR CLOTHING:**
- Take off contaminated clothing.
  - Rinse skin immediately with plenty of water for 15-20 minutes.
  - Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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

<b>EMERGENCY PHONE</b>	<b>800-292-5898</b>
<b>SAFETY DATA AND INFORMATION</b>	<b>866-430-2775</b>
<b>TRANSPORTATION EMERGENCY (CHEMTREC)</b>	<b>800-424-9300</b>



EPA REG. NO. 400-554  
EPA EST. NO.  
002

Manufactured for:  
Chemtura Corporation  
199 Benson Road  
Middlebury, CT 06749



www.chemtura.com

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER • PELIGRO**

Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are polyethylene and polyvinylchloride. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

**All loaders, applicators and other handlers must wear:** Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves except when sewing bags of treated seed, chemical-resistant apron when loading, cleaning up spills, or cleaning equipment and a NIOSH-approved respirator with any N<sup>2</sup>, R, P or HE filter.

Persons handling un-bagged treated seed are handlers and must wear handler personal protective clothing.

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

See Engineering Controls for additional options.

**ENGINEERING CONTROLS**

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40CFR170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not contaminate water when disposing of equipment washwaters or rinsate. In the event that treated seeds are spilled and cannot be salvaged, completely cover them with soil.

**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. 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.

Do not use treated seed for food, feed, or oil purposes.

For use only on agricultural establishments at or immediately before planting.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with 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 handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**Double Notification:** Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

**Eye Protection:** For at least seven days following the application of captan:

1. At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site for workers entering the area treated with captan, and
2. workers must be informed orally, in a manner they can understand:
  - that residues in the treated area may be highly irritating to their eyes,
  - that they should take precautions, such as refraining from rubbing their eyes to keep the residue out of their eyes,
  - that if they do get residue in their eyes, they should immediately flush their eyes, with the eyeflush container that is located at the decontamination site, and
  - how to operate the eyeflush container.

**Exception:** Once the seeds are planted in soil or other planting media, the Worker Protection Standard, allows workers to enter the treated areas without restriction if there will be no contact with the soil/media subsurface. 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,
- chemical-resistant gloves made of any waterproof material
- shoes plus socks
- protective eyewear.

## PRODUCT INFORMATION

Enhance Seed Protectant is a formulation specifically designed for treatment of wheat, oat and barley seed on the farm at planting time. It controls covered smut (*Tilletia caries* and *Tilletia foetida*) and loose smut (*Ustilago nuda*) on wheat, covered smut (*Ustilago kollerii*) and loose smut (*Ustilago avenae*) on oats and covered smut (*Ustilago hordei*) and loose smut (*Ustilago nuda*) on barley. It also tends to reduce seed rot and seedling blight caused by soil fungi.

## RATES

**Wheat, Oats, Barley** Use 4 oz. per 100 lbs. of seed

Enhance Seed Protectant also controls various seed and seedling diseases of soybeans.

**Soybeans** Use 5 oz. per 100 lbs. of seed

4/4  
Apply as a planter-box treatment (including air and vacuum planters), mixing thoroughly with the seed before planting. For best results, the following procedure is suggested. Fill planter-box only half-full of seed, add half the required amount of Enhance Seed Protectant and mix thoroughly with a stick. Then add remainder of seed to planter-box and add the rest of the required amount of product to the seed, again mixing thoroughly. Good results are also obtained by premixing seed with the product in a suitable container, then pouring treated seed into planter-box.

**Note:** One level scoop (enclosed) is equivalent to approximately 1 avoirdupois ounce of this product.

Adjust the seed drill or planter to give the required rate of seed delivery with treated seed. Regularly inspect planter plates and clean as required. At the end of each day, clean out the electric-eye monitors as directed by the manufacturer.

## STORAGE AND DISPOSAL

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

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

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Completely empty into application equipment. Then dispose of empty liner and container in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## IMPORTANT NOTICE

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product, contrary to label instructions, or under conditions not reasonably foreseeable to seller, and, to the extent consistent with applicable law, the buyer assumes the risk of any such use.

Treatment of highly mechanically damaged seed, or seed known to be of low vigor and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigor.

Treat and conduct germination tests on a small test sample of seed before treating commercial quantities with a selected chemical treatment. Due to seed quality and seed storage conditions beyond control of Chemtura, Chemtura makes no claims of guarantees as to germination of carry-over seed.

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