

400-554

12/15/2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

400-554

Date of Issuance:

DEC 15 2008

NOTICE OF PESTICIDE:

Registration  
XX Reregistration  
(under FIFRA, as amended)

Terms of Issuance:

**Unconditional**

Name of Pesticide Product:

**Enhance**

Name and Address of Registrant (include ZIP Code):

**Chemtura Corporation  
199 Benson Rd  
Middlebury, CT 06749**

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your responses to the Reregistration Eligibility Documents for carboxin and captan, EPA has reregistered the product listed above provided that the following changes are made to the label:

1. On Page 1, delete the words "Trace Seed Protection Products" from the upper left corner of the label.
2. On page 1, based on toxicity review, First Aid statements must be placed in the following order:  
"IF IN EYES:....  
IF INHALED:....  
IF ON SKIN OR CLOTHING:....  
IF SWALLOWED:...."

Page 1 of 4

Signature of Approving Official:

*Mary L. Waller*

Mary L. Waller  
Product Manager (Team 21)  
Fungicide Branch  
Registration Division

Date:

12/15/2008

3. On page 1 delete the URL “www.tracechemicals.com” from the lower right hand corner.
4. On page 1, should you wish to add/retain a reference to Chemtura’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance. As an alternative, you may refer consumers to the company's phone number or email address.
5. On page 2 under **PERSONAL PROTECTIVE EQUIPMENT (PPE)** change the sentence “Persons handling un-bagged treated seed...personal protective clothing.” to “Persons drying or bagging treated seed or sewing bags containing treated seed are handlers and must wear handler personal protective equipment.”
6. On page 2, delete the paragraph under the **HAZARDS TO HUMAN AND DOMESTIC ANIMALS** heading and add:

“Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.”
7. At the end of the section **DIRECTIONS FOR USE** on page 2, move the sentence “For use only on agricultural establishments at or immediately before planting.” to the **Product Information** section.
8. On page 2, under **PPE - All loaders, .....**, after chemical-resistant gloves, add: “except when sewing bags of treated seeds.” and delete “when loading, cleaning up spills, or cleaning equipment”
9. On page 2, under **PPE – All loaders,.....**, add another bullet: “• protective eyewear (goggles, face shield or safety glasses)”
10. On page 2 under **ENGINEERING CONTROLS:**
  - a. Change “...chemical resistant gloves must....” to “...chemical resistant gloves and apron must....”

- b. In the last line change "...available for us in..." to "...available for use in..."
11. On page 2, under the **ENVIRONMENTAL HAZARDS** section, add a new section titled "**ENDANGERED SPECIES**" and add this statement:
- "This bag contains seed treated with carboxin and captan. This product may have effects on federally listed threatened or endangered species or their critical habitat in some counties. It is a violation of federal law to kill, harm, or harass listed animal species without authorization. To limit the potential for such impacts when using this product, consult and follow the instructions provided in the EPA Endangered Species Bulletin for the County or Parish in which you are applying the seed. To determine whether you're County or Parish has a Bulletin, consult <http://www.epa.gov/espp> before each season's use of this product."
12. On page 2 under **DIRECTIONS FOR USE** delete the sentence "Do not use treated seed for food, feed or oil purposes."
13. On page 3 in the **AGRICULTURAL USE REQUIREMENTS** box move the sentence "Exception: Once the seeds...soil/media surface" so that it follows the last sentence in the first paragraph of the **AG USE** box which specifies the REI of 12 hours.
14. On page 3, in the **AGRICULTURAL USE REQUIREMENTS** section, on the last line in the box, after protective eyewear, add "(goggles, face shield, or safety glasses)"
15. On page 3 under the **PRODUCT INFORMATION** header:
- a. Change "Enhance Seed Protectant" to "Enhance" (2 instances)
  - b. Add the following sentence: "Enhance also protects soybean seed from seed borne and soil borne fungi that cause seed decay, damping off, and seedling blights (including *Fusarium*, *Rhizoctonia* and *Pythium*).

16. On page 3 add the following section immediately above the header **APPLICATION INSTRUCTIONS**:

**"RESTRICTIONS**

- Do not graze or feed livestock on treated area for 42 days after planting.
  - Do not use treated seed for feed, food or oil purposes
  - Soybean restriction: Do not graze or feed forage or hay from treated areas to livestock"
17. On page 3 under **APPLICATION INSTRUCTIONS**:
- a. Change "Enhance Seed Protectant" to "Enhance" (1 instance)
  - b. Delete the following statements, "12 hour restricted entry interval (REI) for

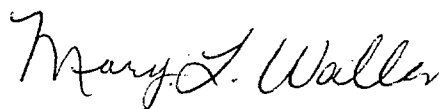
planter box-type or hopper-box seed treatment uses,” and “Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the soil/media subsurface.”

18. On page 3 in the first paragraph under **IMPORTANT NOTICE** delete the words “under normal conditions of use”.
19. In accordance with PR Notice 2007-4, submit an amendment before February 1, 2009 to comply with the labeling revisions required by the Final Rule for Pesticide Management and Disposal.

This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

The revised basic Confidential Statement of Formula (CSF) dated 9/28/07, submitted in connection with reregistration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. This CSF supersedes all CSFs previously accepted for this product.

A copy of your label stamped “Accepted with Comments” is enclosed for your records. Submit one (1) copy of final printed label incorporating the above changes before you release the product for shipment. The amended label will supersede all previously accepted labels.



Mary L. Waller  
Product Manager (Team 21)  
Fungicide Branch  
Registration Division (7505P)

Enclosure

Label stamped “Accepted with Comments”  
PRB Preliminary Label Assessment dated November 29, 2007  
Product Chemistry Review DP345140 dated November 1, 2007  
Acute Toxicity Review DP345145 dated October 11, 2007  
PRB Preliminary Label Assessment dated February 9, 2005

Trace Seed  
Protection Products

# Enhance®

SEED PROTECTANT

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

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

DEC 15 2008

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

400-  
554

**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

- |                                |   |
|--------------------------------|---|
| <b>IF IN EYES:</b>             | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15- 20 minutes.</li><li>• Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |
| <b>IF SWALLOWED:</b>           | <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have the person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |
| <b>IF INHALED:</b>             | <ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>   |
| <b>IF ON SKIN OR CLOTHING:</b> | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>   |

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

**Net Contents:**

EPA REG. NO. 400-554  
EPA EST. NO.  
003

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



www.tracechemicals.com  
www.chemtura.com

6/7

**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,
- chemical-resistant apron when loading, cleaning up spills, or cleaning equipment
- NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or 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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

See Engineering Controls for additional options.

**ENGINEERING CONTROLS**

When handlers use closed systems designed by the manufacturer to enclose the pesticide to prevent it from contacting handlers or other people AND the system is functioning properly and is used and maintained in accordance with the manufacturer's written operating instructions, the handlers need not wear the chemical-resistant gloves must be immediately available for us in an emergency, such as a spill or equipment breakdown.

**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 chemical is toxic to fish. Do not contaminate water when disposing of equipment washwaters or rinsate or by disposal of wastes. Treated seed exposed on soil surface may be hazardous to birds. Cover or collect spilled seeds.

**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 Worker Protection Standard-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.

**Early Entry 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, or treated seeds 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

### APPLICATION INSTRUCTIONS

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.

12 hour restricted entry interval (REI) for planter box-type or hopper-box seed treatment uses.

**Exception:** Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the soil/media subsurface.

### 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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