

Trace Seed  
Protection Products

# Enhance<sup>®</sup> AW

## SEED PROTECTANT

### Active Ingredients:

Captan*	19.55%
Related Derivatives	0.45%
Carboxin	20.00%
Imidacloprid	20.00%
Other Ingredients:	40.00%
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	
<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>
<b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	
<b>EMERGENCY ASSISTANCE:</b> 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>

### Net Contents:

EPA REG. NO. 400-567  
EPA EST. NO.  
002/031209

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



www.tracechemicals.com  
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
- 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 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.

**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** and **highly toxic to aquatic invertebrates**. 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.

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 your County or Parish has a Bulletin consult <http://www.epa.gov/espp> before each season's use of this product.

**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.**

**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.

**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 this product:

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 this product, 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.

**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 and protective eyewear.

### PRODUCT INFORMATION

Enhance® AW Seed Protectant is an insecticide and fungicide combination seed treatment formulation specifically designed for treatment of seed on the farm at planting time. It controls common bunt or stinking 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*), false loose smut (*Ustilago nigra*) and true loose smut (*Ustilago nuda*) on barley. Protects seed from seed borne and soil borne fungi that cause seed decay, damping-off, and seedling blights (including *Fusarium*, *Cochliobolus sativus*, *Rhizoctonia* and *Pythium*) for all labeled crops.

For wheat, oats and barley, Enhance AW provides early season protection of seedlings against injury by aphids (including Bird cherry-oat, English grain, Greenbug, and Russian wheat aphid). Suppresses early season Hessian fly damage. Also provides suppression of wireworm activity on seed and young seedlings.

For soybeans, Enhance AW provides early season protection against injury by aphids, seed corn maggot, wireworm and overwintering bean leaf beetles.

For the legume vegetables listed below, other than soybeans, Enhance AW provides early season protection against seedling damage by wireworms, bean leaf beetles, imported fire ants, and aphids.

### RATES

Crops	Rate of Product*
Wheat, Oats, Barley	4 oz. per 100 lbs. of seed
Soybeans	5 oz. per 100 lbs. of seed
Peas and Beans: (Adzuki Bean, Asparagus Bean, Broad Bean (Dry), Broad Bean (Succulent), Catjang Bean, Chinese Longbean, Field Bean, Guar Bean, Jackbean, Kidney Bean, Lablab Bean, Lima Bean (Dry), Lima Bean (Succulent), Moth Bean (Dry), Moth Bean (Succulent), Mung Bean, Navy Bean, Pinto Bean, Rice Bean, Runner Bean, Snap Bean, Sword Bean, Tepary Bean, Urd Bean, Wax Bean, Yardlong Bean, Blackeyed Pea (Dry), Blackeyed Pea (Succulent), Chickpea, Cowpea (Succulent), Cowpea (Dry), Crowder Pea, Dwarf Pea, Edible-Pod Pea, English Pea, Field Pea, Garden Pea, Green Pea, Pigeon Pea (Dry), Pigeon Pea (Succulent), Snow Pea, Southern Pea (Dry), Southern Pea (Succulent), Sugar Snap Pea, Grain Lupin, Sweet Lupin, White Lupin, White Sweet Lupin, Lentil)	5 oz. per 100 lbs. of seed

\* Enhance AW contains 0.2 oz of captan, 0.2 oz of carboxin and 0.2 oz of imidacloprid per 1 oz of product.

### USE RESTRICTIONS

**Wheat, Barley, Oats:** Do not graze or feed livestock on treated areas for 45 days after planting.

**Soybeans:** Do not graze or feed livestock on soybean forage or hay.

**Peas and Beans:** Do not allow livestock to graze or feed on forage until 60 days after treated seed is planted.

**ENTRY RESTRICTION:** Do not allow people or pets to enter the treated area until dusts have settled.

Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application.

## ROTATIONAL PLANT-BACK INTERVALS

Treated areas may be replanted with any crop specified on this product label, or any crop for which a tolerance exists for the active ingredients, as soon as practical following the last application. The following plant-back intervals must be observed for listed crops:

### Immediate Plant-Back:

Artichoke; Barley; Brassica (cole) leafy vegetables; Canola; Cilantro; Corn, Sweet; Corn, Field; Cotton; Cranberry; Cucurbits; Eggplant; Field Leafy vegetables; Ground cherry; Leaf petiole vegetables; Legume vegetables (succulent or dried); Mustard Seed; Oats; Okra; Pepinos; Pepper; Popcorn; Potato; Rapeseed; Rye; Sorghum; Soybeans; Strawberry; Sugarbeet; Tomatillo; Tomato; Triticale; Vegetables, Root and Tuber; Watercress; Wheat

### 30-Day Plant-Back

Buckwheat, Millet, Rice, Safflower

### 10-Month Plant-Back

Onion and bulb vegetables

### 12-Month Plant-Back

For all other crops not listed on this product label, or for crops for which no tolerance for the active ingredients has been established, a 12-month plant-back interval must be observed.

Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

## 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 AW Seed Protectant and mix thoroughly with a stick or other device. 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 1 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:** Nonrefillable container.

Do not reuse or refill this container. Completely empty container by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of empty container in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Offer for recycling, if available.

## 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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