

# Grain Guard<sup>®</sup>



DRILL-BOX SEED TREATMENT  
FOR WHEAT, OATS, BARLEY, RYE, SORGHUM, SAFFLOWER AND RICE

Active Ingredient (% by weight):

mancozeb - a coordination product of zinc ion and manganese ethylene  
bisdithiocarbamate in which the ingredients are:

manganese .....	10.00%
zinc .....	1.25%
ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) .....	38.75%
Other Ingredients .....	50.00%
Total.....	100.00%

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

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

**24 HOUR EMERGENCY PHONE 1-866-928-0789**

For PRODUCT USE INFORMATION: Call 1-866-761-9397

Net Contents:

EPA REG. NO. 400-558  
EPA EST. NO.  
002/051911

Manufactured for:  
MacDermid Agricultural Solutions, Inc.  
245 Freight Street  
Waterbury, CT 06702-1818

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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

**Mixers, Loaders, Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical resistant gloves made of any waterproof material, shoes plus socks, and a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval prefix TC-21C or any R, P or HE filter.

**USER SAFETY REQUIREMENTS**

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.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash thoroughly with soap and water after handling and 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 product is **toxic to aquatic organisms**. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

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.

**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.

After the seeds have been planted, do not enter or allow worker entry into treated areas during the **restricted entry interval (REI) of 24 hours**.

*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 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.

**PRODUCT INFORMATION**

GRAIN GUARD® is a mancozeb fungicide formulation for treating of wheat, oats, barley, rye, sorghum, safflower and rice seed **only in the drill-box or planter box at planting time**. GRAIN GUARD will control bunt of wheat and rye, covered smuts of oats and barley, covered kernel smut of sorghum, seed-borne rust of safflower, and damping-off, seed rot and seedling blights on all labeled crops.

**USE RATE**

Measuring scoop enclosed. One level scoop equals 1 ounce.

Crop	Ounces (scoops) of GRAIN GUARD®	
	per bushel of seed	per 100 lb. of seed
Barley	2	4.2
Oats	2	6.3
Rice	1.8	4
Rye	2	3.6
Safflower	1.1	3
Sorghum	1.7	3
Wheat	2	3.3

**MIXING INSTRUCTIONS**

Apply GRAIN GUARD® mancozeb fungicide to dry seed. For best results, the seed must be completely and uniformly covered with fungicide. A dye must be added to the GRAIN GUARD which will impart an unnatural color to the seed.

**APPLY ONLY AS A DRILL-BOX OR PLANTER BOX TREATMENT AT PLANTING TIME.**

Mix thoroughly so that all seeds are covered. For best results, following procedure is suggested: Fill drill-box or planter box only half-full of seed, add half the amount of GRAIN GUARD, and mix thoroughly with a stick or paddle; then add remainder of seed and product, again mixing thoroughly.

## USE PRECAUTIONS AND RESTRICTIONS

Users must carefully read, understand and follow all use restrictions prior to using GRAIN GUARD.

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

Care must be exercised in the handling of treated seed.

TREAT ONLY THOSE SEED NEEDED FOR IMMEDIATE USE, minimizing the interval between treatment and planting. DO NOT store excess treated seeds beyond planting time.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container only. Store in a secure place that is cool, dry and well-ventilated. Do not allow to become wet or overheated in storage: decomposition, impaired activity, or fire may result. Keep away from fire and sparks.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### **CONTAINER DISPOSAL:**

##### **Nonrefillable Container**

Paper or Plastic Bag: Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then dispose of empty bag 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 the chemical description on the label and is reasonably fit for the purposes stated on the label only when used in accordance with the directions, instructions and restrictions 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. Since this product is designed for treating seeds just prior to planting, MacDermid Agricultural Solutions, Inc. makes no claims or guarantees as to germination of carry-over seed.

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