

all natural ingredients

# PERMA-GUARD™

Pure Diatomaceous Earth Products

New 03-06-2012

**DIRECTIONS FOR USE**

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## GRAIN OR SEED STORAGE INSECTICIDE

### D-10

PERMA-GUARD D-10 GRAIN OR SEED STORAGE Insecticide is refined from a naturally occurring fresh water Diatomaceous Earth of a particular variety, and has a very high level of purity. The crystalline silica content is very low. Insect control by this material is of a physical nature, not chemical. D-10 kills in nine ways, all physical, but the primary cause of insect death is from dehydration.

#### ACTIVE INGREDIENTS:

Silicon dioxide (including silicon dioxide, other oxides and moisture)... 100%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

If in eyes: immediately flush with water.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Use with adequate ventilation and avoid breathing of dust. Where PERMA-GUARD D-10 IS BEING USED AS DIRECTED IN A COMMERCIAL APPLICATION, OR WHERE ANY OTHER DUSTS IN QUANTITY ARE PRESENT, IT IS RECOMMENDED THAT THE APPLICATOR WEAR A RESPIRATOR OF A TYPE APPROVED BY THE US BUREAU OF MINES FOR THIS PURPOSE.

**CAUTION**

Causes moderate eye irritation. Avoid breathing dust. Avoid contact with eyes or clothing. Wear a dust mask when using during prolonged exposure. Wash thoroughly with soap and water after handling and

before eating, drinking, chewing gum or using tobacco.

This material is an effective post-harvest additive to aid in the prevention of insect damage from RICE WEEVILS, LESSER GRAIN BORERS, FLAT GRAIN BEETLES, MERCHANT GRAIN BEETLES, SAW TOOTHED GRAIN BEETLES, RED FLOUR BEETLES, CONFUSED FLOUR BEETLES, GRANARY WEEVILS, and larvae of the INDIAN MEAL MOTH to stored grains and seeds such as barley, buckwheat, corn, oats, rice, rye, sorghum (milo), sunflower seeds, and wheat.

Grain treated with this material will have a slightly dusty appearance, movement speed will be reduced, test weight per bushel will be reduced about four pounds. Fewer kernels will flow into and occupy the same space as untreated grain, results: more bushels of grain.

Treated grain may not be reduced to sample grade, if the USDA procedures in GR instructions 918.49, Grading and Certification of Grain Containing Diatomaceous Earth, dated 4-16-90 are followed. The milling, baking, nutritive and germination qualities of grain or seed are not affected by this treatment.

"Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA."

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

The success of the PERMA-GUARD D-10 system of protecting grains or seeds from insect damage depends upon lightly coating the outside surface of substantially all kernels with this powder. The most effective protection will be achieved if grain or seed are treated immediately after harvest. For best results, the moisture content of the grain or seed to be treated should be adjusted to no more than about 12% by weight. After treatment the grain or seed should be stored in bulk at a temperature above that required to hatch insect eggs which may be present, for a period of time, to hatch all insect eggs on the grain or seed.

**FOR COMMERCIAL APPLICATIONS:** Using standard milling equipment apply seven (7) pounds of this powder directly into each ton of clean, dry grain or seed to be treated and mix thoroughly.

A PERMA-GUARD dispenser consisting of a hopper and variable rate feeder may be used to apply the powder directly onto the grain either at the bottom of an elevator leg or as it is being moved into storage by auger or conveyor belt.

**FOR HOME APPLICATIONS:** Apply one measuring cupful (2 1/2 ounces by weight) of this material to each 25 pounds of grain to be treated. Mix thoroughly. A pail or other container can be used for mixing. Place grain about three inches deep into container. Sprinkle light coating of this powder over the grain. Repeat process until container is almost filled with grain. Place lid on container. Roll or shake container until powder is thoroughly mixed with the grain. Make sure a very light coating of this powder covers surfaces of substantially all kernels. Pour treated grain into a clean, dry container for storage. An air tight seal will aid in keeping moisture out of the grain. Grain should be stored in a cool dry storage area.

#### STORAGE AND DISPOSAL

Store in original container in a dry place. Do not reuse empty container. Wrap container and put in trash collection.



BATCH NUMBER

NET WT. **50 lbs.**

Manufactured for:

**Perma-Guard, Inc.**

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