

• **PROTECT-IT™** contains diatomaceous earth and silica gel. These materials are made of amorphous silicon dioxide from fossil shells of green algae and from precipitated silica, respectively. Their method of control is physical rather than chemical - they absorb the outer lipid layer from insect epicuticles, causing the insects to die from dehydration. It is most effective when given several days to work. Optimum conditions are low grain or seed moisture content and low relative humidity of air. When used as directed, **PROTECT-IT™** effectively controls the following insects which cause damage to grain and seed:

maize weevil	rice weevil
granary weevil	pea weevil
mealworm beetle	grain mites
lesser grain borer	bean weevil
confused flour beetle	red flour beetle
Indian meal moth larva	flat grain beetle
saw-toothed grain beetle	rusty grain beetle

• **PROTECT-IT™** is approved for use in the following stored grains, seeds and sites:

birdseed mix	wheat	rye
sorghum (milo)	barley	rice
sunflower seeds	soybeans	oats
vegetable seeds	corn (maize)	peas
empty flour bins	flower seeds	beans

#### CONTENTS

#### ACTIVE INGREDIENTS:

Diatomaceous Earth	90%
Silica Gel	10%

TOTAL 100%

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND ANIMALS

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes. Use adequate ventilation and avoid breathing dust. Wear a suitable dust mask when using this product during prolonged exposure.

#### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

#### STORAGE AND DISPOSAL

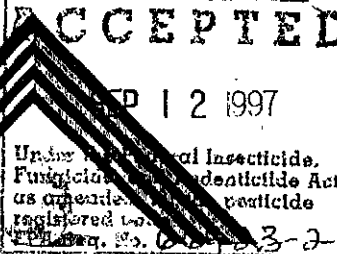
Do not contaminate water, food or feed by storage or disposal. **Storage:** Store in original container in a dry place. Keep bag sealed. **Pesticide Disposal:** Wrap container and put in trash collection or dispose in approved facility. **Container Disposal:** Rinse bags and recycle bags and boxes where possible or place in trash.

#### WARRANTY STATEMENT

Hedley Technologies (USA), Inc. warrants that this product conforms to the ingredient statement on this label. Since conditions of application may vary, Hedley Technologies (USA), Inc. makes no claims other than those stated on this label.

EPA Reg. No. 66923-2 Patent Pending  
EPA Est. No. 66357-IN-002 Batch No. 9703-1  
Net Weight: 15 lbs. (contents may settle)

0.1 Pound Measuring  
Cup Enclosed



# Protect-It

Ready to use Insecticide for Stored Grain and Seed  
- For Commercial and Pest Control Operator Use -  
- Apply as a Dust or Wettable Powder -

Manufactured by  
**Hedley Technologies (USA) Inc.**  
P.O. Box 2220, Blaine WA 98231

0.1 Pound = 1 Eight Oz. Cup			
For Wet Application Mix 1.6 Pounds per Gallon			
Commodity & Insect or Mite	Application Rates (PER TON)		
	Dust (pounds)	Wet (gallons)	
Maximum Moisture Content:	13%	14.5%	13%
<b>WHEAT</b>			
beetles (rusty and flat grain)	0.15	0.20	0.125 (1/8)
weevils (maize, rice, granary)	0.30	0.40	0.25 (1/4)
lesser grain borer	0.40	0.80	Dry only
flour beetles (red and confused)	0.40	0.60	0.375 (3/8)
grain mites	0.20	0.20	0.125 (1/8)
<b>CORN (Maize) and SORGHUM</b>			
weevils (maize, rice, granary)	0.40	0.80	Dry only
lesser grain borer	1.60	2.00	Dry only
red flour beetle	1.00	2.00	Dry only
Indian meal moth larvae	1.20	2.00	Dry only
<b>RICE, Dehusked &amp; Brown, Polished &amp; Dehusked</b>			
weevils (maize, rice, granary)	2.00	2.00	Dry only
lesser grain borer	2.00	3.00	Dry only
flour beetles (red and confused)	3.00	3.00	Dry only
<b>OATS, RYE and BARLEY</b>			
beetles (rusty, flat)	0.15	0.20	0.125 (1/8)
saw-toothed grain beetle	0.30	0.40	0.25 (1/4)
weevils (maize, rice, granary)	0.30	0.60	0.375 (3/8)
flour beetles (red and confused)	0.40	0.60	0.375 (3/8)
lesser grain borer	0.40	0.60	Dry only
grain mites	0.20	0.20	0.125 (1/8)
<b>SOYBEANS, BEANS, PEAS (Bruchidae)</b>			
bean and pea weevils	0.20	0.40	0.25 (1/4)
<b>BIRDSEED MIX</b>			
weevils (rice, granary)	0.20	0.40	Dry only
Indian meal moth larvae	1.20	2.00	Dry only
<b>SUNFLOWER, FLOWER &amp; VEGETABLE SEEDS</b>			
Indian meal moth larvae	2.00	2.00	Dry only
red flour beetle	3.00	4.00	Dry only

#### DIRECTIONS FOR USE

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

- When used as directed, control of insects in stored grains and seeds continues throughout the storage period and, after storage, grains or seeds can be used as intended without removal of **PROTECT-IT™**.
- **PROTECT-IT™** can be used in any dry container where grain or seed are stored or transported, such as in silos or elevators, rail cars, ships, truck trailers, and appropriate cans, drums or packages. It provides maximum control when the relative humidity in the storage container is below 70%.
- **Structural Treatment of Empty Storage and Transportation Containers and Facilities (surface, crack and crevice treatment):** **PROTECT-IT™** can be applied as a dust or in a slurry. Treat all cracks, crevices and surfaces with dust at 1 pound per 1,000 square feet with a dust blower, preferably an electrostatic model. For wet application, mix 1 pound per gallon of water and spray at a rate of 1.5 gallons per 1000 square feet of surface.
- **Application To Stored Grains and Seeds:** **PROTECT-IT™** may be applied to grain or seed at any stage of preparation or transportation after drying and cleaning and prior to storage. Treat the entire product mass with dust or mix with water and spray.
- **PROTECT-IT™** may be applied to product as it enters the auger or conveyor feeder system during transfer of grain into storage facilities or into transportation containers. Dust or water suspension should be mixed thoroughly with grain or seed to be stored at the rates shown in the table.
- If frequent or serious infestations are common, especially red flour beetle or lesser grain borer, follow these directions for additional protection of stored grain or seed:
  1. Two weeks before filling empty storage or transportation container with grain, apply **PROTECT-IT™** at 0.6 pounds dust per 1000 square feet of surface area or as a slurry at the rate of 1 pound per gallon per 1000 square feet, and
  2. Treat bulk of grain according to rates shown in the table (dry or wet), or
  3. Either a) treat top 1.5 feet of grain with 0.6 pounds dust per ton or use a slurry containing 1.6 pounds per gallon at the rate of 0.375 gallons per ton, or b) treat top surface of grain with 3 pounds dust per 1000 square feet of surface area or use a slurry containing 3 pounds dust per two gallons water per 1000 square feet of area.
- Depending of the type of grain or seed treated and the concentration of **PROTECT-IT™** used, test weight and movement speed may be reduced, but the presence of diatomaceous earth should not cause the treated material to be reduced to sample grade if the USDA FDIS procedures in Program Directive 9180.49 (September, 1996) are followed.

PMD 3  
 66923-2  
 9/12/97  
 111