



# Centynal™

## INSECTICIDE

For use by Commercial Applicators for Industrial Use

**PROTECTS STORED GRAINS AND SEEDS AGAINST  
DAMAGE FROM INDIAN MEAL MOTH, SAW-TOOTHED GRAIN  
BEETLE, RED FLOUR BEETLE, RICE WEEVIL,  
MAIZE WEEVIL, AND MANY OTHER LISTED PESTS**



Department of Agriculture  
STATE OF HAWAII



Department of Agriculture  
STATE OF HAWAII

Long Lasting Residual

Agitate Well

**LICENSED**

**LICENSED**

PERIOD **2015-2017** LIC. NO. **9426.640**

PERIOD **2012-2014** LIC. NO.

**ACTIVE INGREDIENT:**

Deltamethrin\*.....4.75%

**OTHER INGREDIENTS:**..... 95.25%

100.00%

\*Contains 0.42 lb deltamethrin per gallon

**NET CONTENTS:**

1 GAL (128 FL OZ)

300512724

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.

PRECAUCIONAL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada amplimente.

See back panels for additional Precautionary Statements, Storage and Disposal instructions and Directions for Use

**DIRECTIONS FOR USE:** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

**RESTRICTIONS:**

DO NOT apply CENTYNAL™ Insecticide through any type of irrigation system.

DO NOT water the treated area to the point of runoff.

DO NOT apply this product more than once every 21 days.

DO NOT make applications during rain.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

Treatment to soil or vegetation around structures;

Applications to building foundations, up to a maximum height of 3 feet

Applications to lawns, turf, and other vegetation;

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches, and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. DO not allow this product to enter any drain during or after application.

**PRODUCT INFORMATION:** CENTYNAL™ Insecticide is a suspension concentrate insecticide for use both indoors and outdoors for effective knockdown and long residual control of listed pests.

**Mixing Instructions:** Mix CENTYNAL™ Insecticide with water and apply using a hand pressurized or power operated sprayer, such as Actisol or similar equipment. For outdoor broadcast application, apply as a coarse spray or with conventional hydraulic boom-type sprayer or other suitable equipment. Shake container well before using.

**Dilution Instructions:** • Add half the water to the spray tank • Add CENTYNAL™ Insecticide as specified in the appropriate application rates table • Agitate well • Add the remaining water slowly to avoid excess foam • Thoroughly agitate the sprayer before using to insure proper suspension.

**Note:** If spraying is stopped when using a back-pack or hand-held spray equipment, reinvert sprayer before use. If spray screens are used, they must be 50 mesh or larger. Dilute CENTYNAL™ Insecticide only with water. Only prepare the spray solution when ready to make application.

**Tank Mixing:** Tank Mix CENTYNAL™ Insecticide with other currently registered pesticides unless prohibited by the product label. To check for product compatibility, a small volume mixing test with other products is recommended. Follow all restrictions and precautions specified on the labels of these tank-mix products.

**STORED GRAIN:** To control adults and accessible stages of insect pests such as, Lesser Grain Borer, Larger Grain Borer, Angoumois Grain Moth, Indian Meal Moth, Tobacco Moth, Dermestids, and Bean Weevil; also to suppress populations of Granary Weevil, Rice Weevil, Maize Weevil, Saw-toothed Grain Beetle, Red Flour Beetle, and Confused Flour Beetle.

**Directions for Treatment:** Dilute CENTYNAL™ Insecticide with water and apply to the moving grain stream as a coarse spray to provide a concentration of 0.5 ppm of deltamethrin on the grain. For uniform treatment, use a moving grain stream.

Final spray volume with water solutions – 5 gallons of liquid per 1000 bushels of grain

For water solutions, intermittent agitation is necessary.

For stored grain, apply CENTYNAL™ Insecticide in solution at the rate of 5 gallons of solution per 1000 bushels to achieve a 0.5 ppm concentration of deltamethrin. Apply at rates as shown in the tables below:

**AMOUNT OF CENTYNAL™ INSECTICIDE/1000 BUSHELS OF GRAIN**

GRAIN	CENTYNAL™ INSECTICIDE TREATMENT AT 0.5 PPM		GALLONS OF DILUTE
	FL OZ	ML	
Barley	7.31	216	5
Corn	8.53	252	5
Oats	4.88	144	5
Popcorn	8.53	252	5
Rice	6.86	202	5
Rye	8.53	252	5
Sorghum (milo)	8.53	252	5
Wheat	9.14	270	5

Final spray volumes to treat 100 metric tons of grain at 0.5 ppm concentrations of deltamethrin are provided in the table below corresponding to the grain being treated.

**AMOUNT OF CENTYNAL™ INSECTICIDE/100 METRIC TONS OF GRAIN**

GRAIN	CENTYNAL™ INSECTICIDE PER 100 METRIC TONS AT 0.5 PPM		LITERS OF DILUTE SOLUTION
	FL OZ	ML	
Barley	33.6	993	86.9
Corn	33.6	993	74.5
Oats	33.6	993	130.4
Popcorn	33.6	993	74.5
Rice	33.6	993	92.7
Rye	33.6	993	74.5
Sorghum (milo)	33.6	993	74.5
Wheat	33.6	993	69.5

**SEED TREATMENT:** Apply CENTYNAL™ Insecticide to protect stored grain seed against injury from stored grain insects listed. Clean and treat seed storage areas prior to storage. If seed is insect infested, fumigate\*\* to control existing populations and apply CENTYNAL™ Insecticide for residual protection. CENTYNAL™ Insecticide may also be used in conjunction with registered fungicide or other insecticide seed protectants, to protect barley, corn, oats, popcorn, rice, rye, sorghum and wheat seed during the seed treating process, and prior to bagging or placing in bulk seed storage at the rate of 0.5 ppm. When treating seed with other pesticide products, the treated seed should be properly tagged, indicating the seed should not be used for food, feed, or oil purposes. Seed treated with CENTYNAL™ Insecticide alone is considered grain.

\*\*Fumigate with EPA-registered fumigant according to manufacturer's label recommendations.

**GRAIN BINS AND WAREHOUSES:** Dilute 0.25 – 1.5 fl oz of CENTYNAL™ Insecticide with water to make 1 gallon of solution. Before storing or handling grain, apply finished spray to equipment, wall and floor surfaces of grain bins and warehouses at the rate of 1 gallon per 1000 sq ft but do not allow runoff to occur. Apply after equipment bins and buildings have been thoroughly cleaned. Empty bins or warehouses should be fumigated with an EPA-registered fumigant according to the manufacturer's label recommendations as well as areas that are difficult to get into. Use CENTYNAL™ Insecticide as a perimeter treatment to prevent infestation of these structures. Apply to areas where pests are seen or may

find entrance. Treat a band of soil or lawn up to 6-10 feet wide around and adjacent to structures and treat the foundation to a height of 2 to 3 feet. Mix 0.25 – 1.5 fl oz of CENTYNAL™ Insecticide with water to make 1 gallon of solution. Apply as a coarse spray at a rate of 1 gallon per 1000 sq ft. Thoroughly and uniformly wet the barrier area but do not allow runoff to occur.

**PEST CONTROL OUTDOORS:** Apply CENTYNAL™ Insecticide as a perimeter treatment, residual spray, or broadcast application to lawns, grounds and ornamental plantings. Apply as a perimeter treatment or residual spray around non-residential settings. Treatments should begin at the first sighting of pests.

**Residual Spray:** Apply CENTYNAL™ Insecticide as a coarse low-pressure spray at the rate of 0.75 to 1.5 fl oz to surfaces of buildings, porches, screens, window frames, eaves, patios, refuse dumps, garages, and lawns.

**Perimeter Treatments:** For best results, apply CENTYNAL™ Insecticide to areas where pests are seen and may find entrance. Treat a band of soil or lawn up to 6-10 feet wide around and adjacent to buildings and treat the building foundation to a height of 2 to 3 feet. Apply as a coarse spray at the rate of 0.25 to 1.5 fl oz of CENTYNAL™ Insecticide in sufficient amount of water. (See Mixing Directions for Perimeter Application below). Use an adequate volume to thoroughly and uniformly wet the barrier area but do not allow runoff to occur.

**MIXING DIRECTIONS FOR CENTYNAL™ INSECTICIDE OUTDOOR PERIMETER APPLICATION**

**CENTYNAL™ INSECTICIDE DILUTION (0.25 fl oz/1000 sq ft)**

Tank Size	15 Gallons	25 Gallons	50 Gallons	100 Gallons
Finished Spray Gallons/1000 sq ft	CENTYNAL™ Insecticide Per Tank (fl oz)			
1	3.75	6.25	12.50	25.00
3	1.25	2.08	4.17	8.33
5	0.75	1.25	2.50	5.00
10	0.37	0.63	1.25	2.50

**CENTYNAL™ INSECTICIDE DILUTION (1 fl oz/1000 sq ft)**

Tank Size	15 Gallons	25 Gallons	50 Gallons	100 Gallons
Finished Spray Gallons/1000 sq ft	CENTYNAL™ Insecticide Per Tank (fl oz)			
1	15.0	25.0	50.0	100.0
3	5.0	8.4	16.7	33.3
5	3.0	5.0	10.0	20.0
10	1.5	2.5	5.0	10.0

**Restrictions:** Do not apply CENTYNAL™ Insecticide until the location of heating or air conditioning ducts, vents, water and sewer lines, and electrical conduits are identified. Once known, applications may be made around these structures, however, be careful to avoid contamination of these structures and airways.

**STORAGE and DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE** – Mix as needed. Store in original container in a secured, dry storage area. Avoid extremes in temperatures. Prevent cross-contamination with other pesticides and fertilizers. If the container is leaking and/or material is spilled on floor or paved surfaces, absorb on sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area for your disposal. Concentrate is stable at normal storage temperatures. **PESTICIDE DISPOSAL** - Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL – Nonrefillable container.** Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT: READ BEFORE USE:** Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Wellmark International's control, it is impossible for Wellmark International to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** WELLMARK INTERNATIONAL MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Wellmark International is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Wellmark International disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.



**PRECAUTIONARY STATEMENTS – HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION:** Harmful if inhaled. Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove contaminated clothing and wash before reuse.

**FIRST AID**

**If inhaled** • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

**ENVIRONMENTAL HAZARDS:** This product is extremely toxic to freshwater and estuarine fish and invertebrates. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

This pesticide is highly toxic to bees exposed to direct treatment. Do not apply or allow it to drift to crops or weeds on which bees are actively foraging.

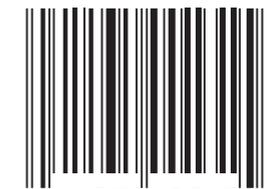
**PHYSICAL AND CHEMICAL HAZARDS:** Do not use water-based sprays of CENTYNAL™ Insecticide in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

For product information, call 1-800-248-7763, M – F, 8 am – 5 pm CST.

**Wellmark International**  
1501 East Woodfield Road 200W  
Schaumburg, Illinois 60173

[www.bugfreegrains.com](http://www.bugfreegrains.com)

EPA Reg. No. 53883-276-2724  
EPA Est. No. 2724-TX-1  
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Base Label  
Copy Area

.5625"

4.375"

**LIMITATION OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT WELLMARK INTERNATIONAL'S ELECTION, THE REPLACEMENT OF PRODUCT.



**ACTIVE INGREDIENT:**

Deltamethrin\*..... 4.75%

**OTHER INGREDIENTS:**.....95.25%  
100.00%

\*Contains 0.42 lb deltamethrin per gallon

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

SEE ATTACHED LEAFLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**Wellmark International**

1501 East Woodfield Road 200W  
Schaumburg, Illinois 60173

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