



Centynal^{EC}

INSECTICIDETM

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

- Emulsifiable concentrate
- Residual control of listed pests
- May be diluted with water or oil
- Miscible in dust controlling oils
- May be tank-mixed

SPECIMEN LABEL

ACTIVE INGREDIENT:

Deltamethrin* 4.75%

OTHER INGREDIENTS: 95.25%
100.00%

*Contains 0.41 lb deltamethrin per gallon

EPA Reg. No. 89459-87 EPA Est. No. 2724-TX-1

**KEEP OUT OF REACH OF CHILDREN
WARNING**

See additional Precautionary Statements

PRECAUTIONARY STATEMENTS – HAZARDS TO HUMANS & DOMESTIC ANIMALS – WARNING

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

FIRST AID

Call a poison control center or doctor immediately for treatment advice.

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| If swallowed | <ul style="list-style-type: none"> • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
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(continued)

If in eyes	<ul style="list-style-type: none"> • 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.
If on skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes.
<p>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.</p>	

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 **CentynalTM EC Insecticide (CentynalTM EC)** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

DIRECTIONS FOR USE

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

PRODUCT INFORMATION

Centynal™ EC is an emulsifiable concentrate insecticide for use both indoors and outdoors for effective knockdown and residual control of listed pests. Also for use on stored grains and for treating empty bins and warehouses for stored product pest control. **Centynal™ EC** provides effective knockdown and control of listed adults and larvae.

Mixing Instructions: Mix **Centynal™ EC** with water and apply using a hand pressurized or power operated sprayer. For outdoor broadcast application, apply as a fine or coarse spray using suitable equipment.

Dilution Instructions:

- Add half the water to the spray tank
- Add **Centynal™ EC** as specified in the appropriate application rates table
- Agitate well to insure proper mixing
- Add the remaining water slowly

Note: Re-agitation of spray dilution may be required if left overnight. It is recommended that water be used as the diluent for applications in non-commodity treatments. Use a mixed dilution within 48 hours of preparing.

Tank Mixing: **Centynal™ EC** may be tank-mixed with other currently registered pesticides unless prohibited by the tank-mix partner label. To check for product compatibility, a small volume mixing test with other products is recommended. The more restrictive label will apply when tank-mixing.

STORED GRAIN

For use to control adult and accessible stages of larvae of listed insect pests including, lesser grain borers, larger grain borers, Angoumois grain moths, Indian meal moths, tobacco moths, dermestids, and bean weevils; also to suppress populations of granary weevils, rice weevils, maize weevils, saw-toothed grain beetles, red flour beetles, and confused flour beetles.

In instances of high weevil complex pressure or suspected tolerance, the use of piperonyl butoxide (PBO) synergist may be used as a tank mix partner. Use PBO at a ratio of 1 part **Centynal™ EC** to 1.5 parts PBO. **Centynal™ EC** may be tank-mixed with other pesticide products such as Pyronyl™ Crop spray. The more stringent label will apply when tank-mixing

Directions for Treatment: Dilute **Centynal™ EC** with water or approved dust controlling oils, mineral or soybean oils and apply to the moving grain stream as a coarse spray to provide a concentration of 0.5 ppm - 1 ppm of **Centynal™ EC** on the grain. For applications with water, use 3 – 5 gallons of liquid per 1,000 bushels of grain. Use more or less dilution volume depending on the situation but ensure that uniform coverage is obtained. For rough rice, use 10 gallons of water per 1,000 bushels. Maintain agitation before and during application. Use a mixed dilution within 48 hours of preparing.

Re-agitation of spray dilution may be required if left overnight.

When using oils as a diluent, follow the oil manufacturers' recommendations. For best results, apply the solution as uniformly as possible as the grain is placed into storage.

For stored grain, apply **Centynal™ EC** in solution at the labeled rate of 3 - 5 gallons of dilution per 1,000 bushels to achieve a 0.5 – 1 ppm concentration of **Centynal™ EC**.

Apply at rates as shown in the tables below:

AMOUNT OF CENTYNAL™ EC/1000 BUSHELS OF GRAIN						
Commodity	Centynal™ EC Treatment at 0.5 ppm		Centynal™ EC Treatment at 1 ppm		Gallons of Diluent	Liters of Diluent
	fl oz	ml	fl oz	ml		
Barley	7.75	229	15.50	458	3 – 5	11.3 - 19
Corn	9	266	18	532	3 – 5	11.3 – 19
Oats	5.15	152	10.30	304	3 – 5	11.3 – 19
Popcorn	9	266	18	532	3 – 5	11.3 - 19
Rice	7.20	212	14.40	424	3 – 5	11.3 – 19
Rye	9	266	18	532	3 – 5	11.3 – 19
Sorghum (milo)	8	236	16	472	3 – 5	11.3 – 19
Wheat	9.6	283	19.20	566	3 – 5	11.3 – 19

AMOUNT OF CENTYNAL™ EC/TON OF GRAIN						
Commodity	Centynal™ EC @ 0.5 ppm		Centynal™ EC @ 1 ppm		Ounces of Diluent	Milliliters of Diluent
	fl oz	ml	fl oz	ml		
Barley	0.34	10	0.68	20	13 – 21	384 – 630
Corn	0.34	10	0.68	20	13 – 21	384 – 630
Oats	0.34	10	0.68	20	13 – 21	384 – 630
Popcorn	0.34	10	0.68	20	13 – 21	384 – 630
Rice	0.34	10	0.68	20	13 – 21	384 – 630
Rye	0.34	10	0.68	20	13 – 21	384 – 630
Sorghum (milo)	0.34	10	0.68	20	13 – 21	384 – 630
Wheat	0.34	10	0.68	20	13 - 21	384 – 630

SEED TREATMENT

Apply **Centynal™ EC** to protect stored grain seed against injury from stored grain insects listed. Clean and treat seed storage areas prior to storage. If seed is infested, fumigate** to control existing populations and apply **Centynal™ EC** for residual protection. **Centynal™ EC** may also be used in conjunction with registered fungicides or other insecticide seed protectants, to protect barley, corn, oats, popcorn, rice, rye, sorghum and wheat seeds during the seed treating process, and prior to bagging or placing in bulk seed storage at the rate of 0.5 – 1 ppm. When treating seed with other pesticide products, properly tag the treated seed indicating: "Do not use the seed for food, feed, or oil purposes." Seed treated with **Centynal™ EC** 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™ EC** 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 1,000 sq ft but do not allow runoff to occur. Apply after bins and buildings have been thoroughly cleaned. If infestations are severe or there are areas that are difficult to treat with a conventional spray, fumigation is recommended with an EPA-registered fumigant.

Use **Centynal™ EC** as a perimeter treatment to prevent infestation of these structures. Apply to areas where listed pests are seen or may find entrance. Treat a band of soil or turf 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™ EC** with water to make 1 gallon of solution. Apply as a coarse spray at a rate of 1 gallon per 1,000 sq ft. Thoroughly and uniformly wet the

barrier area but do not allow runoff to occur.

PEST CONTROL OUTDOORS

Apply **Centynal™ EC** 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. Begin treatments at the first sighting of listed pests.

Residual Spray: Apply **Centynal™ EC** as a coarse low-pressure spray diluted in water 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™ EC** to areas where listed pests are seen and may find entrance. Treat a band of soil or turf 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™ EC** 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™ EC OUTDOOR PERIMETER APPLICATION

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

Tank Size Finished Spray: Gallons/1,000 sq ft	15 Gallons		25 Gallons		50 Gallons		100 Gallons	
	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*
1	3.75	15	6.25	25	12.50	50	25.00	100
3	1.25	5	2.08	8	4.17	16	8.33	33
5	0.75	3	1.25	5	2.50	10	5.00	20
10	0.37	1.5	0.63	2.5	1.25	5	2.50	10

*Based on **Centynal™ EC** applied at 0.25 fl oz per 1,000 sq ft per structure

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

Tank Size Finished Spray: Gallons/1,000 sq ft	15 Gallons		25 Gallons		50 Gallons		100 Gallons	
	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*	Centynal™ EC Per Tank (fl oz)	Structures Per Tank*
1	15.0	15	25.0	25	50.0	50.0	100.0	100.0
3	5.0	5	8.4	8.3	16.7	16.7	33.3	33.3
5	3.0	3	5.0	5	10.0	10.0	20.0	20.0
10	1.5	1.5	2.5	2.5	5.0	5	10.0	10.0

*Based on **Centynal™ EC** applied at 1 fl oz per 1,000 sq ft per structure

Do not apply **Centynal™ EC** 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. Do not apply through any type of irrigation system. Do not water the treated area to the point or runoff. Do not make applications during rain.

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 HANDLING** – 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 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 must be followed carefully. However, because of manner of use and other factors beyond Central Garden & Pet Company's control, it is impossible for Central Garden & Pet Company 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.

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For information or in case of an emergency, call 1-800-248-7763.

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