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# K-OTHRINE® DUST
## Insecticide

*Provides quick control of ants, bees, cockroaches, fleas, silverfish, ticks, and numerous stored product pests.

*KILLS CRAWLING INSECTS UP TO 8 MONTHS WHEN LEFT UNDISTURBED.

*Non-staining and odorless. For use in residential and institutional establishments, non-food/feed areas of food/feed processing plants, granaries, and on ornamental plants.

*For use indoors and outdoors.

*Does not clump or absorb moisture.

**ACTIVE INGREDIENT:**

* Deltamethrin [(s)-alpha-cyano-3-phenoxybenzyl - (1R,3R)-3- (2-2dibromovinyl)-2,2-dimethyl cyclopropanecarboxylate] ..... 0.05%

**INERT INGREDIENTS:** ..... 99.95%

100.00%

*K-Othrine® is a registered trademark of Roussel UCLAF, Paris France

**EPA Reg. No. 432-772** **EPA Est. No.**

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.
(TO THE USER: IF you cannot read English, do not use this product until the label has been fully explained to you.)

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

**If On Skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

See Side Panel For Additional Precautionary Statements

NET CONTENTS:

AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

ACCEPTED
AUG 16 1995
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 432-772

## PRECAUTIONARY STATEMENTS
## HAZARDS TO HUMANS AND DOMESTIC ANIMALS
## CAUTION

May be harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Use with care when applying in areas adjacent to any body of water. Do not contaminate water when disposing of equipment washwater.

## DIRECTIONS FOR USE

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

## STORAGE AND DISPOSAL

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

**Storage:** Store product in original container in a cool, dry, locked place out of the reach of children.
**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:** Completely empty bag 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.
**Containers One Gallon and Smaller:** Do not reuse empty containers. Wrap in several layers of newspaper and discard in trash.

IMPORTANT: Read the entire Directions for Use, Precautions and Disclaimer of Warranties before using this product.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

K-Othrine® Dust is a ready-to-use insecticide dust which exhibits effective knockdown and residual control against the pests listed when used according to label directions.

K-Othrine® Dust can be used for residual pest control (non-food/feed areas only) in and on buildings and structures and their immediate surroundings. Permitted areas of use include but are not limited to:

*aircraft
*animal quarters/kennels
*apartment buildings
*buses
*food/feed manufacturing, processing and service establishments
*greenhouses (non-commercial)
*grocery stores and supermarkets
*hospitals
*hotels/motels
*houses
*industrial buildings and installations
*laboratories
*mausoleums
*mobile homes and recreational vehicles
*nursing homes/day care centers
*rail cars
*restaurants
*schools
*sewers and underground tunnels
*stores and institutions
*telecommunication conduit
*theaters
*trucks and trailers
*utility vaults and conduits
*vessels
*warehouses
*zoos

K-Othrine® Dust is intended for applications with hand or power duster (Actisol® DPA or similar equipment), with a paint brush or by other suitable means, to hiding and runway areas and other places where insects are found.

In living areas, make applications in such a manner as to avoid depositions on exposed surfaces or introducing the material into the air.

To apply insecticide directly into crack and crevice, use a bulbous duster or other suitable equipment. Apply lightly and uniformly to infested area. Pay particular attention to cracks and crevices; service ducts; false floors and ceilings; wall voids; around electrical and telephone fittings and equipment; around water and sewer pipes; under and behind cabinets, refrigerators and sinks; around windows and door frames; along baseboards; in attics and crawl space. The amount to be applied will vary with the site but should usually be in the range of 2-3 grams of K-Othrine® Dust per square yard (or 0.5 lbs per 1000 square feet). Repeat as necessary to maintain adequate control.

## INDOOR USE

**Applications Within Food/Feed Plants - Non-Food/Feed Areas:** K-Othrine® Dust is a ready-to-use insecticide dust which has given effective knockdown and residual control of the pests listed. Applications are permitted in the non-food/feed areas of food/feed handling and processing establishments as a spot or crack and crevice treatment.

Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed or prepared. Included also are areas for receiving storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food/feed. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

Examples of non-food/feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling). All areas that insects inhabit or through which insects may enter should be treated.

For crack and crevice treatments, apply dust in small amounts using a Getz, bellows-style, bulb hand duster or other suitable equipment directly into cracks and crevices. Pay particular attention to areas where any of the above pests hide or inhabit, such as: around baseboards and in closets; around water and sewer pipes, doors and windows; behind and under refrigerators, cabinets, sinks, stoves and other equipment; in electrical outlets; around electrical and telephone fittings and equipment: and, under drawers and similar areas. Make applications in a manner to avoid deposits on exposed surfaces or introducing the excess material into the air.

K-Othrine® Dust may be also applied as a void treatment using suitable equipment, as mentioned above, including Actisol® DPA equipment. Be sure to thoroughly treat service ducts, false floors and ceilings, wall voids, attics and crawl spaces. The amount of dust to be applied will vary with the site but should usually be in the range of 2-3 grams per square yard (or 0.5 lbs per 1000 square feet). Repeat treatments as necessary to maintain adequate control.

**Ants, boxelder bugs, cockroaches (including both resistant and non-resistant strains), crickets, fleas, firebrats and silverfish:** Apply K-Othrine® Dust thoroughly to all areas where these pests crawl and hide, especially in those areas described above. For ants, apply to ant trails, around doors and windows and other places where ants enter premises.

**Termites, Carpenter Ants and Carpenter Bees:** Apply to voids or channels in damaged wooden members of a structure; to cracks, spaces or bearing joints between wooden members of a structure; or between such members and the foundation; and in locations vulnerable to termite attack. Drilling may be necessary prior to applying K-Othrine® Dust in these locations, but it must be recognized that such drilling and treating of timber in a particular location may not result in complete coverage of infested and vulnerable voids or galleries K-Othrine® Dust can be applied in attics and crawl spaces to prevent entry of drywood and formosan termites at a rate of 0.5 lb per 1000 square feet of floor area. In these treatments, all vents and blowers should be closed. Inspect at 6 months and one year to insure that colony has been killed. Retreat if necessary.

The purpose of such applications of K-Othrine® Dust is to kill workers or winged forms which may be present in the treated channels at the time of treatment and to impart a temporary resistance at these places to attack which may aid in the prevention of immediate reinfestation. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment but merely a supplement. This supplemental treatment can be particularly supportive of new construction.

**Centipedes, ground beetles, millipedes, scorpions, spiders and sowbugs:** Apply K-Othrine® Dust along and behind baseboards, to window and door frames, corners, pipes, storage locations, attics, crawl spaces, and other areas which these pests may enter or crawl.

**Wasps and Bees:** It is generally advisable to treat wasps and bee nests in the evening when insects are less active and have returned to the nest. Wear protective clothing if deemed necessary to avoid stings. Using hand or power duster (Actisol® or similar equipment) or other suitable means, with extension tubes if necessary, thoroughly dust nest, entrance and surrounding areas where insects alight. Nests in wall voids can be located by listening with your ear against the wall. Drill a hole in the area, blow dust in and reseal. For ground wasps, dust entrance and surrounding areas. For best results check nests carefully one or two days after treatment to ensure complete kill, then remove and destroy nest to prevent emergence of newly-hatched insects. If removal is not feasible, retreat the nest, if necessary. Do not use this product to treat overhead nests.

**Webbing Clothes Moths:** Use K-Othrine® Dust as a crack and crevice treatment in closets and other storage areas where these pests are found. This is an adjunct treatment and will not control moth larvae already on the clothes. DO NOT apply this product directly to clothing.

**Carpet Beetles (Black, Furniture, Common and Varied):** Dust where these insects are found, for example: on and under edges of floor coverings, around baseboards, under rugs and furniture, and in closets.

**Bedbugs:** Apply K-Othrine® Dust thoroughly to all areas where these pests are typically found including: folds and tufts of mattresses, coils of springs, cracks and hollow posts of bedsteads, upholstery of chairs and sofas, picture frame moldings and all cracks and crevices in the room should be treated. Allow powder to remain in contact with surface for 4-6 hours. Thoroughly vacuum treated areas, dispose of vacuum bag and place clean linens on bed.

**Stored Product Pests:** To aid in the control of the exposed stages of:

cadelles
cheese mites
cigarette beetles
confused flour beetles
dark meal worms
drugstore beetles
grain mites
granary weevils
lesser grain borers
merchant grain beetles
red flour beetles
rice weevils
rusty grain beetles
saw-toothed grain beetles
spider beetles
tobacco moths
yellow meal worms

Clean up waste materials, dust, dirt and other debris. Thoroughly treat floors, walls and other surfaces in storage and handling areas. Apply dust in cracks and crevices, behind and under cupboards, and other difficult to reach areas where insects may hide. DO NOT apply directly on food/feed, utensils or on areas where food/feed is stored.

ORNAMENTAL PLANT PESTS

**For the control of:**

aphids
beet armyworms
blister beetles
boxelder bugs
certain leafminers
(Boxwood, Holly, Oak, Spruce Needle)
elm leaf beetle
flea beetles
Japanese beetle
leafhoppers
leafrollers
orange tortrix
periodical cicada
plant bugs
rose chafer
rose midges
rose slugs
tent caterpillars
thrips
weevils

**Shrubs and Ornamentals:** Apply when insects or their damage first appears and repeat at weekly intervals or as necessary. Apply 8 ounces per 1000 square feet; or thoroughly apply to place a thin layer of dust on both upper and lower sides of leaves, stems and flowers.

**Roses, Petunias, Chrysanthemums, Geraniums, Carnations and other related flowers:** To control many leaf and flower chewing insects, apply as soon as the insect appears and repeat at 7 day intervals or as long as insects continue to appear. Apply a thin layer of dust on both upper and lower sides of leaves, stems and flowers.

## OUTDOOR USE

**Perimeter Treatment:** Use K-Othrine® Dust as a residual treatment for control of ants, bees, centipedes, cockroaches, crickets, firebrats, fleas, ground beetles, millipedes, scorpions, silverfish, slugs, sowbugs, spiders, ticks and wasps. Make a residual treatment around windows and doors, porches, screens, eaves, patios, garages, under stairways, in crawl spaces and other areas where pests hide. To help prevent the invasion of buildings and structures by these pest, apply thoroughly and uniformly to the foundation and crawl spaces where pests are active and may find entrance.

**Sewer Treatment:** Cockroach infestations in sanitary sewers may be treated with K-Othrine® Dust to provide quick knockdown and short-term population suppression. When treating sewers, one manhole per 200 linear feet should be treated. Treatments are made by removing the manhole cover and replacing with a disc of plywood bored to receive the typical flexible hose from portable or truck-mounted ventilating equipment. Apply 1-2 ounces of dust into the ventilating air to be dispersed quickly and thoroughly through the system.

**Telecommunication Treatment:** Apply K-Othrine® Dust into telecommunication conduits, cracks and crevices, junction boxes, etc. using suitable application equipment (such as Actisol® DPA Duster, or other types of application equipment capable of applying the proper amount). The amount of K-Othrine® Dust to be applied will vary, but should usually be approximately 1 gram of dust per cubic foot of conduit. [To calculate cubic feet, use the following equation: $\pi$ x radius$^2$ of the conduit x length of the conduit. NOTE: radius = one-half the diameter. Example: 500 linear feet of a 4" (12" = 1 foot; therefore, 0.33 ft) conduit = 3.14 x (0.17 ft x 0.17 ft) x 500 ft = 45.39 cubic feet].

K-Othrine® Dust can be used in areas showing signs of active termite infestations, such as underground telecommunication cable conduits, electrical cable conduits, junction boxes and manholes. Apply dust through suitable application equipment (such as the Actisol® DPA Duster, that is capable of delivering particles suspended in a low pressure air system). Applications should be made from both ends of a run of open conduit in cases where breakdown in the conduit is suspected. K-Othrine® Dust can also be applied directly to the interior of the conduits after cables have been installed. Apply at the rate of 1 gram of dust per cubic foot of conduit using equipment (i.e., Actisol® DPA Duster) that is capable of delivering particles suspended in a low pressure air system.

**Fire Ants:** Apply K-Othrine® Dust with a shaker can. Thoroughly apply dust to adequately cover mound and around the perimeter (18" from the outer edge of the mound). A second treatment may be necessary if complete control is not obtained. DO NOT DISTURB THE MOUND PRIOR TO APPLICATION. If possible, treat all colonies in the vicinity. Also, treat colonies which have not yet constructed a mound.

**Fleas and Ticks in Rodent Burrows:** To control fleas and ticks in and around rodent burrows around homes and other buildings, apply K-Othrine® Dust with a shaker can. Thoroughly apply dust to adequately cover mound and around the perimeter (18" from the outer edge). Be sure to treat abandoned rodent burrows which are suspected of containing fleas and ticks. Treat for a minimum of 5 days for light rodent populations, 10 days when populations are dense. Apply as needed for control.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.