



PROPOSED LABEL

FRONT PANEL

SHAKE WELL BEFORE USE

KNOX OUT 2FM
KNOX OUT 2FM
KNOX OUT® 2FM

Flowable Microencapsulated Insecticide

ACTIVE INGREDIENTS:

Diazinon® (O,O-Diethyl O-[6 methyl-2-(1-methylethyl)-4-pyrimidinyl]phosphorothioate) - - - - - 23.0%

INERT INGREDIENTS: - - - - - 77.0%

TOTAL: - - - - - 100.0%

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUL 5 1984

Under the
EPA
Registration No.
4581-335

Contains 2 pounds Diazinon per gallon

U.S. Patents 3,429,827 and 3,577,515

KEEP OUT OF REACH OF CHILDREN

CAUTION

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN

For additional Precautionary Statements, Statement of Practical Treatment and Storage and Disposal instructions refer to Back Panel. For Directions for Use refer to accompanying Brochure.

EPA Registration No. 4581-335

EPA Establishment No. 4581-TX-1

Net Contents: 1 Gallon/3.785 Liters

Sold by:

AGCHEM DIVISION - PENNWALT CORPORATION
Philadelphia PA, 19102

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PROPOSED LABEL
BACK PANEL

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED - Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN - Remove contaminated clothing immediately and wash skin with soap and water.

IF IN EYES - Wash thoroughly with water for at least 15 minutes. Call a physician if symptoms occur.

NOTE TO PHYSICIAN: The active ingredient of KNOX OUT 2FM is an organo-phosphate cholinesterase inhibitor. Atropine is antidotal only if symptoms of cholinesterase inhibition are present. Morphine is contra-indicated.

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep out of reach of children.

Do not apply to humans, their clothing or bedding. Do not allow children or pets to contact treated surfaces until spray has dried. Do not contaminate food or use on household pets. Cover fish tanks prior to application.

Avoid contamination of food, feedstuffs, or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes, or food storage containers.

Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Do not apply directly to water and wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to bees.

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STORAGE AND DISPOSAL

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

STORAGE: Store in original container only, preferably in a locked storage area. Do not store in a manner where cross contamination with other pesticides, fertilizer, food or feed could occur. If spilled during storage or handling, soak up spillage with absorbent material and dispose of in accordance with Pesticide Disposal instructions listed below.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

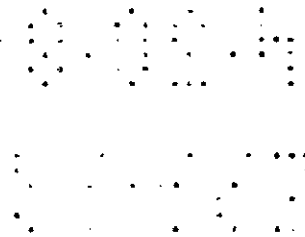
CONTAINER DISPOSAL: Triple rinse container, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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Made in U.S.A.

Printed in U.S.A.



KNOX OUT[®] 2FM INSECTICIDE

EPA Reg. No. 4581-335

SHAKE WELL BEFORE USE

GENERAL INFORMATION

KNOX OUT 2FM is a flowable microencapsulated formulation containing 2 pounds Diazinon per gallon.

It is to be used for residual pest control in and around buildings including, but not limited to, homes, apartments, stores, hospitals, nursing homes, manufacturing plants, warehouses, schools, restaurants, hotels, motels, food processing plants, and on vessels, aircraft, boats, ships, rail cars, buses, trucks, and trailers.

KNOX OUT 2FM can be sprayed on any surface which will not be damaged or stained by water. Under conditions of proper application, KNOX OUT 2FM will not leave a visible deposit. However, if unevenly applied or sprayed to run-off, a visible deposit may occur on some dark surfaces and may be wiped off with a cloth or damp sponge.

Due to its controlled-release nature, KNOX OUT 2FM gives excellent residual kill of the pests listed below; however, effective knockdown may take up to 24 hours after application.

DIRECTIONS FOR USE
GENERAL CLASSIFICATION

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

Thoroughly wash out spray equipment before using KNOX OUT 2FM. Shake concentrate well before diluting. When diluting, first add approximately half of the water to the spray tank, then add the required quantity of KNOX OUT 2FM, and finally add the rest of the water. Occasionally agitate sprayer during use to assure even coverage. Shake or re-agitate sprayer before use if application is interrupted.

Do not use this formulation with oil.

IF SPRAY SCREENS ARE USED, THEY SHOULD BE 50 MESH OR LARGER.

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Unless otherwise directed, dilute KNOX OUT 2FM with water to make a 0.5% to 1% spray** as indicated below:

<u>Amount of Finished Spray</u>	<u>Amount* of KNOX OUT 2 FM to use for:</u>	
	<u>0.5% Spray**</u>	<u>1% Spray**</u>
1 Pint	0.3 fl. oz.	0.6 fl. oz.
2 Pints	0.6 fl. oz.	1.2 fl. oz.
4 Pints	1.2 fl. oz.	2.5 fl. oz.
1 Gallon	2.5 fl. oz.	5.0 fl. oz.
2 Gallons	5.0 fl. oz.	10.0 fl. oz.
3 Gallons	7.5 fl. oz.	15.0 fl. oz.
10 Gallons	25.0 fl. oz. (1.6 pints)	50.0 fl. oz. (1.6 quarts)

* 1 Tablespoon = 0.5 fl. oz.

** Active ingredient basis

Cockroaches and Silverfish - Make spot applications of KNOX OUT 2FM as a 0.5% to 1% fine spray or by paint brush to drawers, shelves, around water pipes, storage areas, closets, behind and under cabinets, refrigerators, sinks, stoves and in similar areas where these insects hide.

Repeat treatments of KNOX OUT 2FM should be made as needed, but generally will not be necessary more than once every 60 days. Use the low rate for light infestations or monthly maintenance sprays, and the higher concentration for heavy infestations, initial clean out, or where insecticide resistance is suspected.

Ants - Make spot applications of 0.5% to 1% KNOX OUT 2FM as a spray to baseboards, window frames, wall voids, crawl spaces, cracks and crevices, and similar hiding or habitation areas. Apply to trails, around doors and windows, and other areas where these pests may crawl or enter the premises. Repeat application as necessary.

Carpenter Ants - Make spot applications of 0.5% to 1% KNOX OUT 2FM to any trails, around doors and windows, wall voids, crawl spaces, and other places where ants enter premises. Where possible, treat ant nest or infested wood directly. Repeat application as necessary.

Carpet Beetles - Make applications of 0.5% to 1% KNOX OUT 2FM as a spray on and under edges of floor coverings, under carpets and furniture, and in closets or other localities where these insects are found. Entire carpets may be treated. Repeat application as necessary.

Crickets - Make spot applications of 0.5% to 1% of KNOX OUT 2FM as a spray to baseboards, behind and under cabinets and appliances, and other hiding places. Areas around doors and water pipes should be treated to help prevent crickets from entering the premises. Repeat application as necessary.

Flies - Make spot applications of 1% KNOX OUT 2FM as a spray to window frames, screens, dumpsters, trash cans, and similar areas where these pests may congregate. Repeat application as necessary.

Fleas and Ticks - Thoroughly apply KNOX OUT 2FM as a 1% fine spray to pet beds and resting quarters, adjacent cracks and crevices, baseboards, carpets and floor coverings, between and under cushions of upholstered furniture, and other areas where these pests may be present. Entire carpets may be treated. Applications to most surfaces should be as light as possible, approximately 2 quarts finished spray per 800 square feet. It may be necessary to use a higher volume of spray, approximately 3 to 4 quarts per 800 square feet, on long, dense shag carpets. Old bedding of pets should be replaced with clean, fresh bedding after treatment. Animals should not be sprayed with this product.

Perimeter Treatment - Residual spray for control of Ants, Carpenter Ants, Cockroaches, Crickets, Fleas, Silverfish, and Ticks:

Apply a 0.5% to 1% KNOX OUT 2FM spray to exterior surfaces of buildings, porches, screens, window frames, eaves, patios, garages, and other areas where these pests congregate or enter premises.

To help prevent infestations of buildings by the above pests, treat a band of soil 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. KNOX OUT 2FM may be applied in compressed air equipment or power spray equipment. Apply as a coarse spray to thoroughly and uniformly wet the band area. A rate of 4 to 6 ounces of KNOX OUT 2FM per 1,000 square feet is desirable.

Food Handling Establishments - Places other than private residences in which food is held, processed, prepared, packaged, or served. Applications are limited to spot and/or crack and crevice treatments only.

Make spot and/or crack and crevice applications of KNOX OUT 2FM using a 0.5% to 1% spray in and around both food and non-food locations, treating localized areas where cockroaches, silverfish, ants, and flies have been seen or are suspected of hiding or entering. Do not use as a space spray or allow spray to contact food, food processing surfaces, or utensils. Make applications using low pressure.

Crack and crevice applications should be made using equipment capable of delivering a pin stream or of applying small amounts of insecticide directly into or between equipment and floors, openings leading to voids in walls, floors, and ceilings, and similar locations where these pests may hide or enter.

Spot treatments should not cover areas of more than 2 square feet and not more than 20% of the floor surface should be treated.

This product is authorized for use in inedible product areas of Federally Inspected Meat and Poultry Plants.

Stored Product Pests - For control of exposed stages of Sawtoothed Grain Beetle, Confused Flour Beetle, Red Flour Beetle, Rice Weevil, Grain Weevil, Warehouse Beetle:

Make spot and/or crack and crevice treatments of 0.5% to 1% KNOX OUT 2FM to localized areas where food products suspected of being infested are stored. Food should be removed or covered during treatment. This treatment is supplemental to good housekeeping, since it will have no effect on insects breeding within packaging. Infested food packaging should be destroyed.

Use In Greenhouses ⁽¹⁾ - For control of Aphids, Fungus Gnat Larvae, Leaf-miners, Mealybugs, (Citrus, Stem and Root), Mites, Scale Insects and Thrips:

Apply KNOX OUT 2FM to the ornamentals listed below at a rate of 0.5 to 1.0 fl oz per gallon of water (3 - 6 pints/100 gallons).

Treat when insects appear. Use higher rate for heavy insect infestations. Repeat application as necessary.

ORNAMENTALS

African Violets	Flat Topped Sedum	Petunia
Agapanthus	Floss Flower	Photinia
Ageratum	Friendship Plant	Pineapple Guava
Aluminum Plant	Gardenia	Pittosporum
Alyssum	Gazinia	Podocarpus
Arrowhead	Geranium	Primrose
Azalea	Golddust	Privit
Begonia	Honeysuckle	Pyracantha
Bird's Nest Fern	Hydrangea	Raphiolepis
Boston Fern	Ilex	Rhododendron
Bottlebrush	Impatiens	Rose
Cactus	Ivy	Salvia
Calendula	Jade Plant (Crassula)	Sansevieria
Camelia	Japanese Arelia	Scarlet Sage
Celosia Jewel Box	Juniper	Snake Plant
Chrysanthemum	Leucothoe	Snapdragon
Cockscomb	Lilac	Spider Plant
Coleus	Malus	Star Jasmine
Cotoneaster	Maranta	Strawflower
Crape Myrtle	Marigold	Tahitian Bridal Veil
Croton	Nandia	Velvet Plant (Gynura)
Daisy	Oleander	Verbena
Dianthus	Orchid	Virvia
Dogwood	Osmanthus	Wandering Jew
Escalonia	Pachysandra	Wax Plant
Euonymus	Periwinkle	Zinnia

KNOX OUT 2FM may also be used on the following bedding vegetables:

Cabbage, Cantaloupe, Cauliflower, Cucumber, Eggplant, Squash, Watermelon, and Zucchini

Do not use on Bella Palm, Dracaena, Hoya, Maidenhair Fern, Neath, Poinsettia, and Prayer Plant.

KNOX OUT 2FM has demonstrated excellent plant safety; however, all varieties of the plants listed above have not been tested. When treating large numbers of plants of a single variety, spray a few plants and observe for phytotoxicity prior to full scale application.

KNOX OUT 2FM may not control some organophosphate resistant ornamental plant pests.

Use In and Around Livestock Housing - For control of Flies in Barns and Animal Sleeping Quarters (except Dairy Barns, Milk Rooms and Poultry Houses):

Apply a 1% KNOX OUT 2FM spray to ceilings and walls of livestock sheds, calf barns, hog barns, loading sheds, and other farm buildings except dairy barns, milkrooms and poultry houses. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Repeat applications as fly populations warrant.

Remove animals from buildings prior to treatment and keep animals out until spray has dried.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry.

Yellowjackets - Use in Baits for Control of Scavenger Yellowjackets (Vespula pensylvanica, V. vulgaris) in the 11 Contiguous Western States Only:

Consult the Supplemental Label available in these states.

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(1) Not for use in California

WARRANTY AND DISCLAIMER

Pennwalt Corporation warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. PENNWALT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL PENNWALT OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Pennwalt and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Pennwalt.

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KNOX OUT® 2 FM INSECTICIDE
(EPA Reg. No. 481-335)

USE FOR CONTROL OF YELLOWJACKETS IN THE 11 CONTIGUOUS WESTERN STATES ONLY

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

For the control of scavenger yellowjackets (*Vespula pensylvanica*, *V. vulgaris*), apply KNOX OUT 2FM as a bait as described below.

BAIT PREPARATION AND DISPENSER DISTRIBUTION

Out 3 ounces (6 level tablespoons) of the preferred bait, add 4 teaspoon of KNOX OUT 2FM. This amount of bait is sufficient for one dispenser. Do not mix more than the recommended amount of KNOX OUT 2FM to the desired bait, or yellowjacket avoidance may occur.

Mix only enough bait for immediate use in the desired number of dispensers. Add bait to each dispenser until it reaches about midway between the container bottom and the access holes. Hang the dispenser, preferably in a sunny location, from tree limb or other suitable support around the periphery of the area to be protected. For best results, use 3 to 4 dispensers per acre, or place them about 100 feet apart.

REAPPLICATION AND BAIT LONGEVITY

Replenish dispensers with fresh bait as long as yellowjackets are present. Unused bait will probably be unattractive to yellowjackets after 7 days, especially if temperatures are above 90°F. If possible, stir bait once each day before yellowjacket activity begins in order to bring fresh bait to the surface. If pest yellowjackets reappear in late summer, retreat the area.

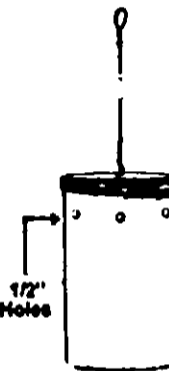
Properly dispose of any unused or stale bait. Do not reuse dispensers for any other purpose.

BAIT ATTRACTIVENESS

Attractiveness of baits to yellowjackets is highly variable and is dependent on such factors as stage of reproductive cycle, type of bait, quality of bait, etc. Before using KNOX OUT 2FM it is recommended that bait preference be determined by placing several candidate baits in a location where yellowjacket activity is occurring. By observing the visitation frequency for a short time, preference will become apparent.

BAIT DISPENSER

In a four to six ounce non-food container with a removable top, drill three to six holes 1/2 inch in diameter around the top of container and two small holes (for attaching wire) in the top.



BAIT SOURCES AND SUGGESTIONS

KNOX OUT 2FM is recommended for use with any of the baits from the categories listed below. In order to maximize efficiency, particles of the selected bait should be reduced to 1/8 inch diameter or smaller. If any bait is dry after preparation, add sufficient water to increase the total moisture content.

Canned Pet Foods - Cat food containing fish is generally the most attractive bait, although meat and poultry products usually are suitable.

Fresh Meat, Fish, and Poultry - Hamburger or salmon is generally the most attractive bait. The selected product should be cooked until the red color barely disappears. Some products, like red salmon, will retain a red color even after cooking. All traces of free grease should be removed.

Canned Meat, Fish, and Poultry and Processed Meats - (ham, cold cuts, etc.) - These products are often very attractive to yellowjackets and need not be cooked.

Read and follow all precautionary statements on the product label.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water and wet lands. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to bees.

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8 JUL 1984

310/121148
18/16

Agchem Division
Pennwalt Corporation
Three Parkway
Philadelphia, PA 19102

Attention: Gerald D. Rosebery

Gentlemen:

Subject: Amendment - Add Greenhouse, Yellow
Jacket Bait Use, Updated Label
Knox Out 2 PM Insecticide
EPA Registration No. 4581-335
Your Application Dated April 19, 1984

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. The pesticide disposal text is inappropriate for this product. The appropriate text which should be used is "Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility."
 - b. In the additional text for greenhouse use, delete all references to use on bedding vegetable plants. The Agency assumes that, based on the pests on the label, this is a foliar treatment, and as such requires submission of supportive residue data.
 - c. The directions pertaining to the additional claim for carpet beetles should refer to the flea control directions concerning treating entire carpets. You may wish to incorporate the carpet beetle directions into the flea and tick control directions.

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CONCURRENCES							
SYMBOL ▶							
SURNAME ▶	<i>Th...</i>						
DATE ▶	<i>6/3/84</i>						

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

4. Submit the following chemistry information:

Specific numerical values for each ingredient certification are preferable to a ± format.

Upper and lower limits must also be stated for each intentionally added inert ingredient. In addition, please include a brief discussion as to how these limits and those for the active ingredients were established. Ideally, active ingredient limits are established by analytical data and quality control history. We anticipate that most limits for intentionally added inert ingredients will be based on the precision of your weighing procedures rather than analyses.

According to present regulations and policy, the label claim for each active ingredient must not be more than the lower certified limit for that ingredient.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

RD/IRB:LaRocca:DCR-04487:WANG-00211:eg:Raven:479-2013:6/26/84

P.S. The directions for stored product pests should include the sites of treatment i.e., shelves, cupboards.

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