

KABAT[®]

Tobacco Protector

For protection of stored tobacco from damage by Cigarette Beetle (*Lasioderma serricorne*) and Tobacco Moth (*Ephestia elutella*).

Active Ingredient: methoprene [Isopropyl (E,E)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate]	5.0%
Inert Ingredients:	95.0%
Total:	100.0%

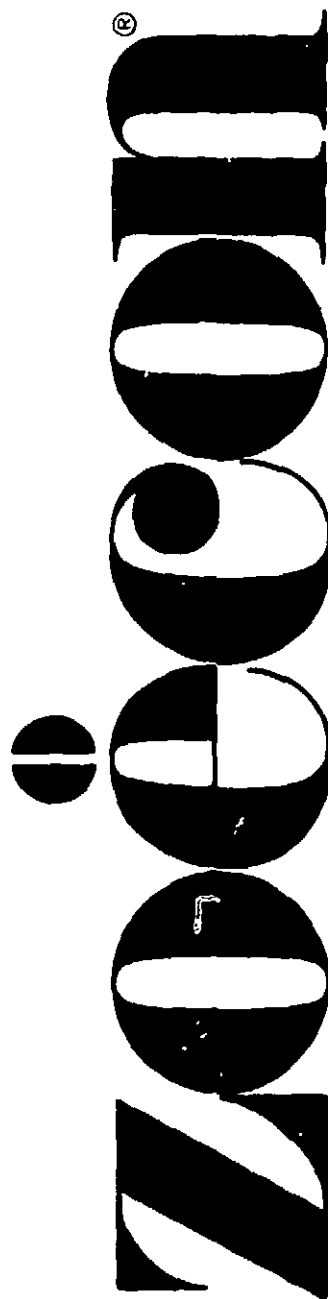
Formulation contains 0.34 lb. gal. (41 gm. liter) Active Ingredient U.S. Patents 3,904,662 & 3,912,815
KABAT is a registered trademark of Zoecon Corporation E.P.A. Reg. No. 20954-15 E.P.A. Est. No. 20954-CA-1

KEEP OUT OF REACH OF CHILDREN WARNING

See back panel for additional precautionary statements

Net Contents - 5 Gallons

Manufactured By Zoecon Corporation, Palo Alto, California 94304



KABAT[®] Tobacco Protector

Introduction.

Exposure of the larval instars of the cigarette beetle tobacco moth (*Ephestia elutella*) to KABAT[®] Tobacco Protector prevents emergence. KABAT contains an Insect Growth Regulator which kills pupae or adult insects. When applied as directed, KABAT provides sufficient field life under varying tobacco storage conditions to prevent population increase.

Mixing Instructions.

To treat 1,000 pounds of tobacco, add 0.2 pounds of KABAT to 2.5 pounds of SDA-4 alcohol and agitate. With additional water for a total of 10 pounds of spray solution. Agitate. The dilute mixture of KABAT spray should be used within 24 hours.

Method Of Application.

Treat tobacco by spraying KABAT Tobacco Protector. Apply 0.2 pounds of dilute spray to 1,000 pounds of tobacco. Make content adjustment immediately prior to compaction. Assure complete coverage by using multidirectional spraying.

Warranty And Conditions Of Sale.

Zoecon Corporation warrants that the chemical content conforms to the chemical description on the label. Zoecon makes no other warranty, express or implied, on this product other than as indicated on the label.

Princep®

80W

ACCEPTED
 SEP 11 1973
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under
 EPA Reg. No. 100-437

Herbicide

For weed control
 in certain crops,
 ornamental plant-
 ings, on industrial
 sites, and
 around-the-farm

Active Ingredient:
 Simazine: 2-chloro-
 4, 6-bis (ethylamino)-
 s-triazine 80%
 Inert Ingredients: 20%
 Total: 100%

Princep 80W is a
 wettable powder

Keep Out of Reach
 of Children.

Warning:

See additional
 precautionary state-
 ments on left panel
 of bag.

See directions for use on
 panel at right.

Five Pounds
 Net Weight

EPA Reg. No. 100-437

CIBA-GEIGY

... DOCUMENT AVAILABLE ...

Walnuts
Apply 2 1/2-5 lbs per acre

Precautions: 1. Do not apply to sandy soil. 2. Leveling and tilling operations after application will lessen effectiveness of weed control.

Note: Do not apply when nuts are on the ground.

Princep 80W Plus Evin' 80W for Grapefruit and Oranges

Use in grapefruit and oranges in Florida and Texas for control of weeds listed in the following directions and under General Information. Apply the rates given below in a minimum of 40 gals. of water per acre thoroughly covering existing vegetation, but avoiding contact with citrus fruit, foliage, or stems. Do not spray under windy conditions. Apply when weeds have resumed active growth in the spring, but before they exceed 4 inches in height (except as noted for vines). Apply only once per year. To avoid possible injury, do not use in nurseries, or around trees that have been established in the grove less than two years, or where trees are under stress from freeze damage for one year after the freeze. Do not apply within 200 days before harvest. Do not graze treated areas. Observe all precautions and limitations on the labeling of Princep 80W and Evin' 80W.

Florida (Ridge Area): Apply 5 lbs. of Princep 80W plus 5 lbs. of Evin' 80W per acre; controls this weed vine when applied either preemergence or on vines up to 24 inches tall.

Florida (Bedded Area): Apply 4 lbs. of Princep 80W plus 6 lbs. of Evin' 80W per acre; controls balsam poplar vine when applied either preemergence or on vines up to 12 inches tall.

Texas: Apply 4-5 lbs. of Princep 80W plus 2-3 lbs. of Evin' 80W per acre plus 2 qts. non-ionic surfactant, such as X-77 per 100 gals. of spray mixture; add surfactant to spray tank last; controls such grasses as manna grass (ivy), Texas panicum, sandspur, and sunflower, and gives top-kill of Johnson grass. Use 5 lbs. of Princep 80W per acre for longer residual control; use 3 lbs. of Evin' 80W per acre for control of heavy weed growth and for top-kill of Johnson grass. Use the higher rate of both products for control of manna grass.

Princep 80W Plus Paraquat CL

Princep 80W plus Paraquat CL tank mix combination is effective in the fruit and nut crops listed in the following table for control of existing vegetation and for residual control of the annual broadleaf and grass weeds listed under General Information, except where specified differently in the following use directions. This combination is also effective for top-kill and suppression of perennial weeds.

Apply the appropriate rates in the following table as a tank mix in 50-200 gals. of water per acre to the orchard floor avoiding contact with fruit, foliage, or stems. Add a non-ionic surfactant such as X-77 at the rate of 1/2 pt. per 100 gals. of spray. Apply when the weeds and grasses are succulent and new growth is 1-6 inches tall. For mature woody weeds or difficult to control perennial weeds, retreatment or spot treatment with Paraquat CL may be necessary.

Crop	Broadcast rate of Princep 80W (combined with 1-2 qts. Paraquat CL and 1/2 pt. X-77 per 100 gals. spray) per acre	Precautions ²
Almonds ¹ Calif. only peaches (Calif. only)	1 1/2-2 1/2 lbs. in 2-4 ft. band on each side of tree row; 1 1/2 lbs. provides residual control of burdock, common chickweed and mustard, and shepherds-purse.	Do not treat trees established in the grove less than 3 years. Do not treat Mission variety of almonds. Do not apply to almond trees propagated on pump rootstocks. Do not re-plant almonds or peaches in treated soil. Do not apply on gravelly sand or loamy sand soil or on soil with less than 1% organic matter. Do not treat areas where water will accumulate.
apples pears sour cherries (Mich. only) walnuts ¹ (Calif. only)	2 1/2-5 lbs.	Walnuts: Do not apply to sandy soil. Leveling and tilling operations after application will reduce weed control.
peaches	2-5 lbs.	Do not apply to sandy or gravelly soil. Use only in Ark., La., Mo., Okla., Tex., and states east of the Miss. River.
grapes (Calif. only)	2 1/2-5 lbs.	Do not use in vineyards established less than 3 years.
oranges (Calif. only)	2 1/2-5 lbs.	Do not use in nurseries. To avoid possible injury, do not apply to trees under stress from freeze damage for one year following the freeze. Do not use in the Imperial, Coachella, or Palo Verde valleys in California.
Fl. - bedded only	4 lbs.	

Note: Do not allow animals to graze treated areas.

Refer to the Princep 80W and the Paraquat CL labels for further directions, cautions, warnings, precautions, and notes.

¹For band application or spot application around trees or grape vines, reduce the broadcast rate and water volume in proportion to the area actually sprayed.

²Precautions for all fruit and nut crops listed. Apply the tank mix only once per year, except where more applications are recommended in the table. Apply only where trees have been established in the grove at least one year (except three years for almonds, peaches, and grapes in California). Do not spray under windy conditions and use a shield for young trees.

³Do not apply to almonds or walnuts when nuts are on the ground during the harvest period.

Field and Forage Crops

Alfalfa

Pure alfalfa at least one year old; pure alfalfa less than one year old; and alfalfa-orchardgrass mixtures at least one year old.

For ground application apply Princep 80W in a minimum of 15 gals. of water per acre. If a fertilizer may replace all or part of the water used as a carrier, except liquid fertilizers, do not be used when alfalfa is actively growing as much as possible.

For aerial application apply Princep 80W in a minimum of 2 1/2 gals. of water per acre.

Pure Alfalfa At least One Year Old, All Areas Listed

Apply once per year in the fall after the establishment of permanent frozen ground conditions. Alfalfa may be actively growing, semi-dormant, or dormant when the application is made.

Alfalfa must be growing for at least one year before treatment.

BEST DOCUMENT AVAILABLE

Region	Weeds controlled	Soil texture	Rate of Princep 80W per acre
Washington, Oregon, Nevada, Utah, Idaho, Montana, Wyoming, Colorado, and the California counties of Del Norte, Siskiyou, Modoc, Shasta, Lassen, Plumas, Sierra, and Nevada	Downy brome (cheatgrass), fensholt mustard, sheep sorrel, yellow pepperweed, seedling shepherd's purse, yellow flower pepperweed	Sand and loam sand Sandy loam Loam soil Clay soil	DO NOT USE 1 lb 1 1/2 lbs 2 lbs
N. Dakota, S. Dakota, Minnesota, Wisconsin, Nebraska, Kansas, Iowa, Michigan, and New York	henbit and mustards, common chickweed, shawnee, German moss, avissum, downy brome (cheatgrass), wild oats, pepperweed, fensholt mustard, pigweed, speedwell, and seedlings of yellow rocket, shepherd's purse, white cockle, tanweed, pennygrass, dandelion, Russian thistle, cockle	Sand and loam sand Sandy loam Loam soil Clay soil	DO NOT USE 1 lb 1 1/2 lbs 2 lbs
Illinois, Indiana, Ohio, Kentucky, Virginia, Pennsylvania, New Jersey, Delaware, Maryland, West Virginia, Vermont, Massachusetts, Connecticut, Maine, New Hampshire, Rhode Island, and Missouri	Pigweed, common chickweed, mouse-ear chickweed, speedwell, henbit, shawnee, German moss, pepperweed, fensholt mustard, avissum, common lambsquarters, wild oats, and seedlings of shepherd's purse, tanweed, pennygrass, yellow rocket (wintercress), Russian thistle, dandelion, cockle, white cockle	Sand and loam sand Sandy loam Loam soil Clay soil	DO NOT USE 1 lb 1 1/2 lbs 1 1/2 lbs

Note: Under dry weather conditions, preplant applications may give better weed control.

Soil texture	Broadcast rate per acre
Coarse-textured soil: Sand, silty, and loam (high in organic matter)	2 1/2 lbs
Medium-textured soil: Soil containing a moderate amount of clay and organic matter	3 lbs
Fine-textured soil: Loam that is high in organic matter and clay, including dark prairie soils of Corn Belt	3 1/2 lbs
Organic soil: Peat, muck, and high-organic clay	5 lbs

For calculation of band treatment rate, see the General Information section.

To control quackgrass: Apply 3 1/2-5 lbs per acre in the fall. Plow two to three weeks later, or if erosion is a problem, delay plowing until spring. Do not plant any crop except corn in the spring following treatment. Do not graze treated area.

Note: If weeds develop, particularly under relatively dry conditions, a shallow cultivation will generally result in better weed control.

Precautions: 1) Do not apply more than 5 lbs. of Princep 80W to corn in any one year. 2) Land treated with Princep should not be planted to any crop except corn until the following year as injury may occur. 3) After harvest of a treated crop, plow and thoroughly till the soil in fall or spring to minimize possible injury to spring-seeded rotational crops. Regardless of the rate used, do not apply more than 3 1/2 lbs. of Princep 80W to soybeans per acre or equivalent rate in a band. A crop of untreated corn should precede the next rotational crop. 4) Do not apply Princep 80W preplant, incorporated in corn in the high plains and intermountain areas of the West (including central and western Kansas, western Nebraska, western Oklahoma, and the Panhandle of Texas) where rainfall is sparse and erratic or where irrigation is required. 5) In the high plains and intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use Princep 80W to control weeds in corn only when corn is to follow corn or a crop of untreated corn is to precede another rotational crop. 6) In western Minnesota and eastern parts of the Dakotas, Nebraska, and Kansas, do not plant soybeans following corn treated with Princep if more than 2 1/2 lbs. of Princep 80W per acre (or equivalent rate in a band) was applied as injury may occur. 7) Do not plant sugar beets, tobacco, vegetables including dry beans, spring-seeded small grains, or small-seeded legumes and grasses the year after Princep 80W application as injury may occur.

Pure Alfalfa Less Than One Year Old (Northeastern U.S. Only)

Pure alfalfa which has been seeded in the spring before June 1 and has become well established may be treated in the fall after the last cutting out before permanently frozen ground conditions. Alfalfa may be actively growing, semi-dormant, or dormant when Princep is applied. Apply 1 lb of Princep 80W per acre to control henbit, wild mustard, common lambsquarters, common chickweed, German moss, avissum, downy brome (cheatgrass), wild oats, fensholt mustard, pigweed, speedwell, and pepperweed.

Established Alfalfa-Orchardgrass Mixtures (Northeastern U.S. Only)

Apply only to alfalfa-orchardgrass mixtures which have been established at least one year. Make a single application in the fall after the alfalfa-orchardgrass mixture has gone dormant. Applications should be uniform broadcast at the rate of 1 lb. of Princep 80W per acre to control henbit, wild mustard, common lambsquarters, common chickweed, German moss, avissum, downy brome (cheatgrass), wild oats, fensholt mustard, pigweed, speedwell, and pepperweed.

Precautions (For Each User): 1) Do not use on sand or loamy sand, or on soil low in organic matter, or on sandy and gravelly areas in the fields as crop injury may occur. 2) Applications made to alfalfa growing on highly calcareous or highly alkaline soil may result in crop injury. 3) Use only in areas where frost occurs and alfalfa goes into a semi-dormant or dormant state. 4) Do not apply on snow. 5) Princep will not control cockle and established perennial or biennial weeds such as dandelion, white cockle, quackgrass, quackgrass, wild carrot, and dock. 6) Temporary crop chlorosis may appear on areas where overlapping occurs. The sprayer should be shut off when turning around at the end of corners of the field. 7) Princep-treated alfalfa and should not be planted to any rotational crops except corn for the growing season following application as injury may occur.

Note: Allow 30 days between application and grazing of dairy and beef cattle and sheep, and allow 60 days between application and cutting for hay.

Princep 80W Plus Paraquat CL for Alfalfa (Washington, Oregon, Nevada, Utah, Idaho, Montana, Wyoming, Colorado, and California counties of Del Norte, Siskiyou, Modoc, Shasta, Lassen, Plumas, Sierra, and Nevada) Controls three-leafed mustard and shepherd's purse and gives improved control of bluegrass, cheatgrass, common chickweed, and fensholt mustard. Apply 2 lbs of Princep 80W plus 1/3 lb of Paraquat CL in 20-50 gals. of water per acre with ground equipment or 1/2-3 lbs of water per acre with aerial application. Apply 1 lb Princep 80W rate plus Paraquat CL when weeds are less than 4 inches tall. Apply when weeds are succulent and growing in the fall.

Apply to established alfalfa after the last fall cutting when the crop is dormant and before spring growth starts. Do not apply if frost is following the last fall cutting is more than 2 inches tall. Alfalfa forage present at application will be burned. Apply once per growing season. Do not pasture animals in treated alfalfa before first cutting. Do not graze, but if harvest within 90 days after application, observe all precautions and limitations on the labeling of Princep 80W and Paraquat CL.

Forage Bermudagrasses (Such as Coastal and Midland)

For preemergence control of most annual broadleaf and grassy weeds including bermudagrass, crabgrass, bromine spp., goosegrass, oat, cereals, wild oat, common annual morning glory, pigweed, common purslane, Russian thistle, common chickweed, henbit, and burdock, apply Princep 80W shortly after sowing. Apply to established bermudagrass from fall to spring depending on the weed problem, but before weed emergence at the appropriate rate in the following table or a minimum of 1/5 gal. of water per acre for ground application and in a minimum of 1 gal. of water for each 1 1/2 lbs. of wettable powder per acre for aerial application.

Soil texture	Rate per acre
Fine sandy soil, low in organic matter	1 lb
Sandy loam soil	1 1/2-2 1/2 lbs
Loam and clay soil, low in organic matter	2 1/2-3 lbs
Clay soil	3-4 lbs

Precautions: Do not use Princep 80W on bermudagrass in New Mexico and the high plains of Texas. Do not apply within 30 days after cutting.

Note: Do not graze dairy or beef cattle or sheep for 30 days after 1 1/2 lbs. per acre application or for 60 days after 4 lbs. per acre application. Do not cut for hay for 60 days after 1 1/2 lbs. per acre application or for 30 days after 4 lbs. per acre application.

Corn: Nitrogen solutions or complete liquid fertilizers may replace a portion of the water as a carrier for Princep 80W. Do not apply if corn has emerged as there is danger of phytotoxicity causing crop injury.

Preemergence: Apply before weeds and corn emerge. Use the appropriate rate in the table above.

Preplant: Apply in the spring after plowing at the appropriate rate in the table above. Do not apply to corn if the soil is wet and the seedbed is not dry. Do not apply to corn if the soil is wet and the seedbed is not dry. Do not apply to corn if the soil is wet and the seedbed is not dry.

Princep 80W Plus Paraquat CL Tank Mix Combination for Weed Control in No-till or Minimum-till Corn East of the Mississippi River Only: Princep 80W plus Paraquat CL tank mix combination is effective for weed control where corn will be planted directly in a cover crop, established sod, or previous crop residues. This combination controls existing vegetation and provides residual control of the annual broadleaf and grass weeds listed under General Information.

Add Princep 80W to the spray tank, mix thoroughly with water, and then add Paraquat CL and a nonionic surfactant. Provide constant agitation during mixing and application to keep the mixture in suspension.

Apply 2 1/2-3 1/2 lbs. of Princep 80W plus 1/2-2 lbs. of Paraquat CL in 20-50 gals. of water per acre as a broadcast; spray either before or after planting but before corn emerges. Add a nonionic surfactant at the rate of 1/2 pt. per 100 gals. of spray volume.

For further information, see general information and caution and warning statements, precautions and notes on the Princep 80W and the Paraquat CL labels.

Sugarcane: Apply 2 lbs. per acre at planting or after harvest. Sugarcane should be grown, but before weeds or sugarcane emerge. Princep 80W may also be applied preemergence to control weeds. Sugarcane provides continuing control of germinating weeds.