

SOLICAM[®]

80WP HERBICIDE

FOR CONTROL OF GRASS AND BROADLEAF WEEDS IN TREE FRUIT AND NUT CROPS,
CITRUS AND HOPS

ACTIVE INGREDIENT:

norflurazon (4-chloro-5-(methylamino)-2-(alpha, alpha, alpha-trifluoro-m-tolyl)-3(2-H)-pyridazinone)	80.0%
INERT INGREDIENTS	20.0%
	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Environmental Hazards: Do not apply directly to any body of water. Do not apply when weather conditions favor runoff or drift from treated area. Do not contaminate water by cleaning of equipment or disposal of wastes.

NOTICE: Sandoz, Inc. makes no warranty, expressed or implied, including the warranties of merchantability and/or fitness for any particular purpose concerning this material, except those which are contained on this label.

WEEDS CONTROLLED

Solicam 80WP at recommended rates controls the following weeds:

Grass Weeds:

Annual bluegrass, Annual sedge, Bahiagrass, Barnyardgrass, Broadleaf signalgrass, Cheat, Crabgrass, Downy brome, Fall panicum, Feather fingergrass, Foxtail (green & yellow), Italian ryegrass, Johnsongrass (seedling), Rippgut brome, Southwestern cupgrass, Six weeks grama grass, Tall fescue, Texas panicum, Wild barley, Wild onion, Witchgrass.

Broadleaf Weeds:

Annual bursage, Carolina geranium, Chickweed, Common purslane, Cudweed, Dog fennel, False dandelion (smooth cat's ear), Fiddleneck, Filix (redstem and whitestem), Little mallow (cheeseweed), London rocket, Pineapple weed, Prostrate spurge, Puncturevine, Redmaids, Russian thistle, Shepherdspurse, Sowthistle, Virginia pepperweed, Wild buckwheat, Wild geranium.

Solicam 80WP at recommended rates suppresses the following weeds: Bermudagrass, Orchardgrass, Purple nutsedge, Quackgrass, Rhizome johnsongrass, Yellow nutsedge, Western muhly (wirestem muhly), Common lambsquarters, Groundsel, Henbit, Horsetweed (marestail), Pigweeds (redroot, tumble and green amaranth), Plantains (bracted and buckhorn), Poorjoe, Silverleaf nightshade (white horse-nettle).

DIRECTIONS FOR USE

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

GENERAL INFORMATION

SOLICAM 80WP is a herbicide for control of certain grasses and broadleaf weeds in tree fruit and nut crops, citrus and hops.

NET 5 pounds



Sandoz, Inc., Crop Protection, 480 Camino Del Rio So., San Diego, CA 92108

SOLICAM 80WP must be moved into the weed root zone to be effective. If no rainfall occurs within four weeks after application, the product must be activated by flood irrigation or sprinkler irrigation. SOLICAM 80WP alone has no postemergence activity and will not control established weeds.

Do not graze livestock on treated areas. Do not feed or graze cover crops grown in treated orchards.

In the following locations, do not use SOLICAM 80WP in deciduous crops: Arizona, and the Coachella, Imperial, Palo Verde and Tehachapi Valleys of California. Do not use in stone fruits on the western slope of Colorado.

APPLICATION DIRECTIONS

Apply SOLICAM 80WP before weeds emerge. The soil surface must be free of weeds and relatively free of plant residues. The soil should be settled and firm at the time of application.

Apply as a directed spray. Avoid contact with fruit or foliage. Make only one application per year. Do not apply when nuts or fruit are on the ground at harvest.

Equipment

Apply accurately with a fixed boom sprayer. Use screen size 50 mesh or larger.

Mixing Instructions

Clean and calibrate the sprayer. Pre-mix the proper amount of SOLICAM 80WP with a small amount of water. Add this to the spray tank already filled with 3/4 the required volume of water. Maintain agitation while filling and spraying. If a bypass line is used, discharge at the bottom of the tank to minimize foaming.

Do not allow SOLICAM 80WP spray mixture to remain in the spray tank overnight, because settling could occur and resuspension would be difficult.

Broadcast Rates

Use 2 1/2 - 5 lbs. of SOLICAM 80WP per acre as a directed spray in 20-100 gallons of water.

Use the lower rates on coarse soils. Use the higher rates on medium to fine soils or soils having organic matter content of greater than 2%.

SOIL TEXTURE	SOIL TYPE	SOLICAM 80WP RATE OF APPLICATION
Coarse	sand, loamy sand, sandy loam	2.50 lb.
Medium	loam, silt loam, silt, sandy clay loam	3.75 lbs.
Fine	sandy clay, clay loam, silty clay loam, silty clay, clay	5.00 lbs.

EPA REG. NO. 11273-19
EPA EST. NO. 10411-TN-01

Strip or Band Treatment

When applying a strip treatment of SOLICAM 80WP, the following formula may be used to calculate the amount per acre:

Width of strip in feet	X	Pounds per acre for broadcast treatment	=	Pounds per acre for strip treatment
Distance between rows in feet				

CROP RECOMMENDATIONS

DECIDUOUS TREE FRUIT AND NUT CROPS

- Apply SOLICAM 80WP as directed to the soil surface from fall to early spring before weeds emerge unless indicated otherwise.
- Do not use on nursery stock.

Almonds, Cherries

In California and the Pacific Northwest, apply SOLICAM 80WP as directed from October through the end of January. Elsewhere, apply as directed from fall to early spring before weeds emerge. Use only on trees that have been established at least 18 months in the field. Do not use on coarse-textured soils such as sand, loamy sand, gravelly sand, fine sand, and sandy loams.

Apples, Peaches

Apply SOLICAM 80WP as directed. The product may be used on newly planted apples and peaches, provided the soil around the tree is firm and there are no depressions in which rain or irrigation water could accumulate. However, in California and the Pacific Northwest, peach trees must be established at least 18 months in the field.

Apricots, Filberts, Nectarines, Pears, Plums, Prunes, and Walnuts

Apply SOLICAM 80WP as directed. Trees must be established at least 18 months in the field in California and the Pacific Northwest. Elsewhere, trees must be established at least 12 months in the field.

Pecans

Apply SOLICAM 80WP as directed to bearing and non-bearing pecans. The product may be used on newly planted trees in the Southeast. Elsewhere, trees must be established at least 12 months in the field. Do not use in New Mexico, Arizona or in Texas west of the Pecos River.

CITRUS CROPS

Apply SOLICAM 80WP as directed any time during the year according to local practice. Higher rates of 3.75-5 lbs./acre can also be used in coarse-textured soils and incorporated to a depth of not more than 3-4 inches for increased activity against less susceptible weeds. SOLICAM 80WP may be used in newly planted citrus.

Do not use on nursery stock.

Do not use where citrus is interplanted with palm trees.

HOPS

Apply SOLICAM 80WP as directed to the soil surface in the fall after the hop yards have been worked for the last time, or within one week after budding in the spring.

Use only on hops that have been established at least 18 months in the field.

SOLICAM TANK-MIX COMBINATIONS

The following tank-mix combinations are recommended for improved control of weeds in tree fruit and nut crops, including citrus. No label dosage rates may be exceeded and the more restrictive label limitations and precautions should be observed. Before applying these combinations, read thoroughly all precautionary statements and other information in both labels. SOLICAM 80WP may not be tank-mixed with any product containing a prohibition against such mixing.

SOLICAM 80WP Plus Paraquat CL

This tank-mix combination is recommended for kill of existing vegetation and for residual preemergence control of susceptible broadleaf and grassy weeds.

Apply 2½-5 lbs. of SOLICAM 80WP per acre and 1-2 qts. of Paraquat CL per acre in 50-200 gals. of water per acre. Apply to the orchard floor, avoiding contact with fruit, foliage, or stems. Add a nonionic surfactant such as X-77¹ at the rate of ½ pint per 100 gallons of spray.

Apply when the weeds and grasses are succulent and new growth is 1-6 inches tall. Mature and dense weed cover should be removed prior to application to allow the spray mixture to contact the soil surface. Apply this combination only once per year.

Do not spray under windy conditions, and use a shield for young trees. Refer to the SOLICAM 80WP and Paraquat CL labels for further directions, cautions, warnings, precautions, and notes.

SOLICAM 80WP plus Princep² 80W or other Simazine 80W Products

This tank-mix combination is recommended for improved control of broadleaf weeds, and more specifically the following:

Clover	Horseweed (marestail)
Dandelion	Lambsquarters
Henbit	Pigweeds

This combination may be used in the following crops:

Almonds	Oranges
Apples	Peaches
Cherries	Pears
Filberts	Pecans
Grapefruit	Plums
Lemons	Walnuts

Apply the appropriate rates in the following table as a tank mix in 20-100 gals. water per acre. Apply as a directed spray to the soil surface before weeds emerge, avoiding contact with fruit, foliage, or stems.

Soil Type	Pounds Product Per Acre	
	SOLICAM 80WP	Simazine 80W
Medium	2.50	1.25
Fine	3.75	2.50

Do not use this combination in coarse soils. Use only in those locations specified in both the SOLICAM 80WP and Simazine 80W labels.

SOLICAM 80WP Plus Karmex³ 80WP or Other Diuron 80WP Products

There may be instances where the combination with Diuron will improve overall weed control in sandy loam, medium or fine soils. SOLICAM 80WP at labeled rates is safe in citrus crops in all soil types when used alone.

This combination may be used in the following crops:

Apples	Pears
Citrus	Pecans
Peaches	Walnuts

Apply the appropriate rates in the following table as a tank mix in 20-100 gals. water per acre. Apply as a directed spray to the soil surface before weeds emerge, avoiding contact with fruit, foliage, or stems.

Soil Type	Pounds Product Per Acre	
	SOLICAM 80WP	Diuron 80WP
Sandy loam	1.75	1.00
Medium	2.50	1.50
Fine	3.75	2.00

In California and Arizona use in citrus only. Do not use this combination on sand, loamy sand, gravelly soils or exposed subsoils, or in soils with less than 1% organic matter (0.5% for pecans). Use only in those locations specified in both the SOLICAM 80WP and Diuron 80WP labels.

STORAGE AND DISPOSAL

Storage: Do not store near or contaminate feed or foodstuffs.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state or local procedures.

Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by state and local authorities.

¹X-77 is a registered trademark of Kalo Agricultural Chemicals, Inc.

²Princep is a registered trademark of the CIBA-GEIGY Corporation.

³Karmex is a registered trademark of E.I. DuPont de Nemours and Company.

FEB 18 1983

Mr. P. Michael Schroeder
Sandoz, Inc.
Crop Protection
480 Camino Del Rio South
San Diego, CA 92108

Dear Mr. Schroeder:

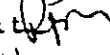
Subject: Amendment: Include Pecans on Full Label;
Revise Restrictions and Tank Mix Directions
Colican 80 WP
EPA Registration No. 11273-15
Your Submission Dated February 11, 1983

The amendment referred to above, submitted in connection with registration under FIFRA is acceptable, provided that you:

1. Make the label change listed below you release the product for shipment bearing the amended labeling:
 - a. In the directions for tank mixing with Paraquat C, name the specific crop(s) for which both active ingredients are recommended.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

Richard F. Mountfort 
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (15-767)

Enclosure

RD:Richard F. Mountfort:DCR-25239:WAG-259JC:aca:Raven:4/9-2013:2/17/83

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

EPA Form 1320-1 (4-81) OFFICIAL FILE COPY

SOLICAM[®]

80WP HERBICIDE

FOR CONTROL OF GRASS AND BROADLEAF WEEDS IN TREE FRUIT AND NUT CROPS,
CITRUS AND HOPS

ACTIVE INGREDIENT:

norflurazon (4-chloro-5-(methylamino)-2-(alpha,
alpha, alpha-trifluoro-m-tolyl)-3(2-H)-pyridazinone) 80.0%

INERT INGREDIENTS 20.0%

100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Environmental Hazards: Do not apply directly to any body of water. Do not apply when weather conditions favor runoff or drift from treated area. Do not contaminate water by cleaning of equipment or disposal of wastes.

NOTICE: Sandoz, Inc. makes no warranty, expressed or implied, including the warranties of merchantability and/or fitness for any particular purpose concerning this material, except those which are contained on this label.

WEEDS CONTROLLED

Solicam 80WP at recommended rates controls the following weeds:

Grass Weeds:

Annual bluegrass, Annual sedge, Bahiagrass, Barnyardgrass, Broadleaf signalgrass, Cheat, Crabgrass, Downy brome, Fall panicum, Feather fingergrass, Foxtail (green & yellow), Italian ryegrass, Johnsongrass (seedling), Rippgut brome, Southwestern cupgrass, Six weeks grama grass, Tall fescue, Texas panicum, Wild barley, Wild onion, Witchgrass.

Broadleaf Weeds:

Annual bursage, Carolina geranium, Chickweed, Common purslane, Cudweed, Dog fennel, False dandelion (smooth cat's ear), Fiddleneck, Filix (redstem and whitestem), Little mallow (cheeseweed), London rocket, Pineapple weed, Prostrate spurge, Puncturevine, Redmaids, Russian thistle, Shepherdspurse, Sowthistle, Virginia pepperweed, Wild buckwheat, Wild geranium.

Solicam 80WP at recommended rates suppresses the following weeds: Bermudagrass, Orchardgrass, Purple nutsedge, Quackgrass, Rhizome johnsongrass, Yellow nutsedge, Western muhly (wirestem muhly), Common lambsquarters, Groundsel, Henbit, Horseweed (maretail), Pigweeds (redroot, tumble and green amaranth), Plantains (bracted and buckhorn), Pokeweed, Silverleaf nightshade (white horse-nettle).

DIRECTIONS FOR USE

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

GENERAL INFORMATION

SOLICAM 80WP is a herbicide for control of certain grasses and broadleaf weeds in tree fruit and nut crops, citrus and hops.

SOLICAM 80WP must be moved into the weed root zone to be effective. If no rainfall occurs within four weeks after application, the product must be activated by flood irrigation or sprinkler irrigation. SOLICAM 80WP alone has no postemergence activity and will not control established weeds.

Do not graze livestock on treated areas. Do not feed or graze cover crops grown in treated orchards.

In the following locations, do not use SOLICAM 80WP in deciduous crops: Arizona, and the Coachella, Imperial, Palo Verde and Tehachapi Valleys of California. Do not use in stone fruits on the western slope of Colorado.

APPLICATION DIRECTIONS

Apply SOLICAM 80WP before weeds emerge. The soil surface must be free of weeds and relatively free of plant residues. The soil should be settled and firm at the time of application.

Apply as a directed spray. Avoid contact with fruit or foliage. Make only one application per year. Do not apply when nuts or fruit are on the ground at harvest.

Equipment

Apply accurately with a fixed boom sprayer. Use screen size 50 mesh or larger.

Mixing Instructions

Clean and calibrate the sprayer. Pre-mix the proper amount of SOLICAM 80WP with a small amount of water. Add this to the spray tank already filled with $\frac{3}{4}$ the required volume of water. Maintain agitation while filling and spraying. If a bypass line is used, discharge at the bottom of the tank to minimize foaming.

Do not allow SOLICAM 80WP spray mixture to remain in the spray tank overnight, because settling could occur and resuspension would be difficult.

Broadcast Rates

Use 2 1/2 - 5 lbs. of SOLICAM 80WP per acre as a directed spray in 20-100 gallons of water.

Use the lower rates on coarse soils. Use the higher rates on medium to fine soils or soils having organic matter content of greater than 2%.

SOIL TEXTURE	SOIL TYPE	SOLICAM 80WP RATE OF APPLICATION
Coarse	sand, loamy sand, sandy loam	2.50 lbs.
Medium	loam, silt loam, silt, sandy clay loam	3.75 lbs.
Fine	sandy clay, clay loam, silty clay, loam, silty clay, clay	5.00 lbs.

NET 5 pounds



EPA REG. NO. 11273-19
EPA EST. NO. 10411-TN-01

Sandoz, Inc., Crop Protection, 480 Camino Del Rio So., San Diego, CA 92108

Strip or Band Treatment

When applying a strip treatment of SOLICAM 80WP, the following formula may be used to calculate the amount per acre:

$$\frac{\text{Width of strip in feet}}{\text{Distance between rows in feet}} \times \text{Pounds per acre for broadcast treatment} = \text{Pounds per acre for strip treatment}$$

CROP RECOMMENDATIONS

DECIDUOUS TREE FRUIT AND NUT CROPS

Apply SOLICAM 80WP as directed to the soil surface from fall to early spring before weeds emerge unless indicated otherwise.

Do not use on nursery stock.

Almonds, Cherries

In California and the Pacific Northwest, apply SOLICAM 80WP as directed from October through the end of January. Elsewhere, apply as directed from fall to early spring before weeds emerge. Use only on trees that have been established at least 18 months in the field. Do not use on coarse-textured soils such as sand, loamy sand, gravelly sand, fine sand, and sandy loams.

Apples, Peaches

Apply SOLICAM 80WP as directed. The product may be used on newly planted apples and peaches, provided the soil around the tree is firm and there are no depressions in which rain or irrigation water could accumulate. However, in California and the Pacific Northwest, peach trees must be established at least 18 months in the field.

Apricots, Filberts, Nectarines, Pears, Plums, Prunes, and Walnuts

Apply SOLICAM 80WP as directed. Trees must be established at least 18 months in the field in California and the Pacific Northwest. Elsewhere, trees must be established at least 12 months in the field.

Pecans

Apply SOLICAM 80WP as directed to bearing and non-bearing pecans. The product may be used on newly planted trees in the Southeast. Elsewhere, trees must be established at least 12 months in the field. Do not use in New Mexico, Arizona or in Texas west of the Pecos River.

CITRUS CROPS

Apply SOLICAM 80WP as directed any time during the year according to local practice. Higher rates of 3.75-5 lbs./acre can also be used in coarse-textured soils and incorporated to a depth of not more than 3-4 inches for increased activity against less susceptible weeds. SOLICAM 80WP may be used in newly planted citrus.

Do not use on nursery stock.

Do not use where citrus is interplanted with palm trees.

HOPS

Apply SOLICAM 80WP as directed to the soil surface in the fall after the hop yards have been worked for the last time, or within one week after hatching in the spring.

Use only on hops that have been established at least 18 months in the field.

SOLICAM TANK-MIX COMBINATIONS

The following tank-mix combinations are recommended for improved control of weeds in tree fruit and nut crops, including citrus. No label dosage rates may be exceeded and the more restrictive label limitations and precautions should be observed. Before applying these combinations, read thoroughly all precautionary statements and other information in both labels. SOLICAM 80WP may not be tank-mixed with any product containing a prohibition against such mixing.

SOLICAM 80WP Plus Paraquat CL

This tank-mix combination is recommended for kill of existing vegetation and for residual preemergence control of susceptible broadleaf and grassy weeds.

Apply 2½-5 lbs. of SOLICAM 80WP per acre and 1-2 qts. of Paraquat CL per acre in 50-200 gals. of water per acre. Apply to the orchard floor, avoiding contact with fruit, foliage, or stems. Add a nonionic surfactant such as X-77[®] at the rate of ½ pint per 100 gallons of spray.

Apply when the weeds and grasses are succulent and new growth is 1-6 inches tall. Mature and dense weed cover should be removed prior to application to allow the spray mixture to contact the soil surface. Apply this combination only once per year.

Do not spray under windy conditions, and use a shield for young trees. Refer to the SOLICAM 80WP and Paraquat CL labels for further directions, cautions, warnings, precautions, and notes.

SOLICAM 80WP plus Princep[®] 80W or other Simazine 80W Products

This tank-mix combination is recommended for improved control of broadleaf weeds, and more specifically the following:

Clover	Horseweed (marestail)
Dandelion	Lambsquarters
Henbit	Pigweeds

This combination may be used in the following crops:

Almonds	Oranges
Apples	Peaches
Cherries	Pears
Filberts	Pecans
Grapefruit	Plums
Lemons	Walnuts

Apply the appropriate rates in the following table as a tank mix in 20-100 gals. water per acre. Apply as a directed spray to the soil surface before weeds emerge, avoiding contact with fruit, foliage, or stems.

Soil Type	Pounds Product Per Acre	
	SOLICAM 80WP	Simazine 80W
Medium	2.50	1.25
Fine	3.75	2.50

Do not use this combination in coarse soils. Use only in those locations specified in both the SOLICAM 80WP and Simazine 80W labels.

SOLICAM 80WP Plus Karmex[®] 80WP or Other Diuron 80WP Products

There may be instances where the combination with Diuron will improve overall weed control in sandy loam, medium or fine soils. SOLICAM 80WP at labeled rates is safe in citrus crops in all soil types when used alone.

This combination may be used in the following crops:

Apples	Pears
Citrus	Pecans
Peaches	Walnuts

Apply the appropriate rates in the following table as a tank mix in 20-100 gals. water per acre. Apply as a directed spray to the soil surface before weeds emerge, avoiding contact with fruit, foliage, or stems.

Soil Type	Pounds Product Per Acre	
	SOLICAM 80WP	Diuron 80WP
Sandy loam	1.75	1.00
Medium	2.50	1.50
Fine	3.75	2.00

In California and Arizona use in citrus only. Do not use this combination on sand, loamy sand, gravelly soils or exposed subsoils, or in soils with less than 1% organic matter (0.5% for pecans.). Use only in those locations specified in both the SOLICAM 80WP and Diuron 80WP labels.

STORAGE AND DISPOSAL

Storage: Do not store near or contaminate feed or foodstuffs.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state or local procedures.

Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by state and local authorities.

[®]X-77 is a registered trademark of Kelo Agricultural Chemicals, Inc.

[®]Princep is a registered trademark of the CIBA-GEIGY Corporation.

[®]Karmex is a registered trademark of E.I. DuPont de Nemours and Company.

OFFICIAL FILE COPY

FD-350 (Rev. 4-81)

NAME									
LAST									
FIRST									
MIDDLE									

CONTINUED

Richard P. Montfort, Director, Bureau of Customs and Border Protection, U.S. Department of Homeland Security, Washington, D.C. 20535

Enclosure

Registration Division (20-701)

Product Manager (20)

Richard P. Montfort

Sincerely yours,

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

Release the product for shipment.

2. Submit five (5) copies of your final printed labeling before you

a. in the directions for each mixing with separate copy, have the specific crop(s) for which each mixture is recommended.

shipment bearing the approved labeling.

1. Make the label change noted below for release the product for

under FIFSA is acceptable, provided that you:

The amendment referred to above, submitted in connection with registration

your submission dated February 11, 1993

and registration No. 112/1-10

Section 20.12

Review instructions and take the directions

Subject: Amendment: include beans on all labels

Best of, Sincerely,

Mr. P. Richard Montfort
Director, Bureau of Customs and Border Protection
U.S. Department of Homeland Security
Washington, D.C. 20535

8-1989