25 FEB 1993

Jonathan E. Bryant, PH.D. Sandoz Agro, Inc 1300 East Touhy Avenue Des Plaines, IL 60018

Dear Dr. Bryant:

Subject: SOLICAM DF Herbicide

EPA Registration No. 55947-78

Application to Amend Registration Dated January 29, 1993, To Change Storage and Disposal Directions To Reflect Bulk Packaging and January 21, 1993, To Revise the Active Ingredient Statement To Reflect Isomer Analysis; and To Revise the Confidential Statement of Formula, Based on a Revised Norflurazon Technical Containing 97.8% a.i.

The proposed amendments to the subject pesticide product labeling submitted in connection with registration under Section 3 of the Federal Insecticide, Fungicide and Rodenticide Act as amended are acceptable provided that vou:

Submit five (5) printed copies of the final printed labeling before releasing the product for shipment.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, Section 6(e). Your release for shipment of the product constitutes acceptance of this condition.

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

The revised Confidential Statement of Formula submitted on CPA Form 8570-4 and dated October 15, 1992 has been reviewed and found to be acceptable under FIFRA as amended. It has been added to the Agency's records for this pesticide product registration.

sincerely yours,

BEST AVAILABLE COPY

Joanne I. Miller Product Manager (23) Fungicide-Herbicide Branch Registration Division (H-7505C)

Enclosure

E. Wilson: Diskette#NC2:02-24-93

SOLICAM® DF

HERBICIDE FOR CONTROL OF GRASS (MONOCOTYLEDON) AND BROADLEAF (DICOTYLEDON) WEEDS IN
TREE FRUITS AND NUTS, CANEBERRIES, GRAPES, ASPARAGUS
AND NON-CROP AREAS.

Technical indredignt and vals by Isomer spectic method AM-0864.

Previously 80% by method T-4795.

KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUTIONARY STATEMENTS

HAZARDS TO HUNANS

Earmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. In case of skin or eye contact, flush with plenty of water.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call physician or a poison control center. Drink 1

or 2 glasses of water and induce vomiting by

touching back of throat with finger. Do not induce

vomiting or give anything by mouth to an

unconscious person.

If on skin: Wash with plenty of soap and water. Get medical

attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Get medical

attention if irritation persists.

<u>Environmental Hazards:</u> Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean highest water mark. Do not apply when weather conditions favor run-off or drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

NET WT.: 5 POUNDS
U.S. PAT NO. 3,935,210 and 3,834,885 ACCEPTED
EPA Reg. No. 55947-78
EPA Est. No. 55618-SC-001

O.S. F.E. 1006

25 FEB 1993 SOLICAM is a Registered Trademark of Sandoz Ltd.

HSOLDF_D.53A Revised January 21, 1993

Under the Pederal Insecticide, Pungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.



I. DIRECTIONS FOR USE

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

Use Precautions

- o Do not apply to container grown plants
- o Do not apply to chemigation except for citrus
- o Do not apply to nursery stock except for citrus
- o Do not apply when nuts or fruit are on the ground at harvest.
- o In the Coachella Valley of California, SOLICAM DF may only be applied to asparagus, citrus and apples or non-crop areas. Do not use in stone fruits on the western slope of Colorado.
- o Do not apply to erodible soil which may wash into the root zone of sensitive plants or apply in greenhouses as crop injury may occur.
- o Do not use on wine grapes grown in coarse soils in the state of Washington.

II. GENERAL INFORMATION

SOLICAM® DF is a preemergence herbicide which controls certain grass (monocotyledon) and broadleaf (dicotyledon) weeds in certain tree fruits and nuts, caneberries, grapes, asparagus and non-crop areas.

SOLICAM® DF must be moved into the weed seed germination zone to be effective. If no rainfall occurs within 4 weeks after application, the product must be incorporated by flood or sprinkler irrigation. SOLICAM® DF has no post-emergence activity and will not control established weeds. Existing weeds must be mechanically removed or controlled by using a suitable postemergence herbicide.

Multiple or sequential applications can be made, but the total quantity of SOLICAM DF applied within a year must not exceed the maximum recommended rate (see table section III.B.).

A. Rotational Crops

Use the following time interval restrictions before planting rotational or replacement crops in land treated with SOLICAM DF.

Crops listed on this label
Refer to tables of maximum SOLICAM® DF rates in each crop section
of this label for interval to wait after application refore
replacement or rotational crop can be planted.

Cotton

Wait 12 months before replanting to cotton.

Crops that do not have a SOLICAN DF use pattern described on this label.

Crops that do not have a SOLICAM DF use pattern listed should not be planted in SOLICAM DF treated soil until a test planting or bioassay of the next intended crop shows no sign of phytotoxicity (loss of pigments (whitening) in the laf vein) for 4 months after emergence. Test plantings must be done to determine if the soil is free of residues of SOLICAM DF.

Cover crops planted in treated areas must not be harvested, grazed or fed to livestock.

B. Tank Mixes

SOLICAM DF may be tank mixed with other herbicides and liquid fertilizer. Some tank mix options for SCLICAM DF are listed in each crop section. Herbicides used as tank mix partners must be registered for use on crop where application is intended. When tank mixing, read and follow the label of each product for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

C. Mixing Instructions

Clean and calibrate the sprayer before preparing spray suspension. Add SOLICAM DF to the spray tank 3/4 filled with the required volume of water. This will eliminate or minimize foaming. Maintain agitation while filling and spraying. If a by-pass line is used, discharge at the bottom of the tank to further minimize foaming.

Do not allow SOLICAM Dr spray mixture to remain in the spray tank overnight.

Predetermine the compatibility of labeled tank mixes with your source of water by mixing small proportional quantities in advance.

Amount of Herbicide to Add to One Pint of Water (Assuming Volume is 25 Gallons per Acre)

Teaspoons	HERBICIDE FORMULATION	LABEL RATE PER ACRE	AMOUNT TO MIX (Level		
	Dry Liquid	1 lb. 1 pt.	1.5		

If herbicide(s) do not ball-up or form flakes, sludge, gels, bily films, layers or other precipitates, the mix is compatible. Incompatibility symptoms will usually occur within 5 minutes after mixing.

If components are incompatible, consult with your local agricultural chemical dealer for the use of an acceptable compatibility agent. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (0.25 teaspoon is equivalent to 2 pints per 100 gallons of water).

Products should be added to the spray tank in the following order:

- 1. Wettable powders and water dispersible granules. Wettable powders should be premixed in a small amount of water. Water dispersible granulars should be added during filling. Mix thoroughly before other products are added.
- 2. Flowable liquids.
- 3. Emulsifiable concentrates.
- 4. Surfactants.

Begin adding wettable powders, flowable liquids, emulsifiable concentrates, and surfactants after the spray tank is 3/4 full. Continue agitation during the addition of all the materials and while filling and spraying.

<u>Always</u> predetermine tank mix compatibility by mixing small proportional quantities in a small container. If after vigorous shaking there are large flakes, gel, sludge, or other signs of incompatibility, do <u>not</u> use the combination Always follow the order of addition given in the mixing instructions given above.

C. Application Equipment

SOLICAM® DF should be applied using a carefully calibrated fixed boom sprayer. Filters with screen sizes of 50 mesh or larger should be used. Supplemental applications may be made in citrus using ring drench techniques or chemigation through low volume sprinkler or drip irrigation systems (see Special Directions for tree fruits and nuts, caneberries and grapes in section III.B.1 for additional information). Chemigation can only be used in citrus crops.

Row Treatment Calculation

When applying a row (or banded) treatment of SOLICAM DF, the following formula may be used to calculate the amount per acre:

Width of sprayed band in feet

Distance between rows in feet

Pounds per acre x for broadcast treatment Pounds per acre for row treatment

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III. DIRECTIONS FOR TREE FRUITS AND MUTS, CAMEBERRIES, GRAPES, ASPARAGUS AND NON-CROP AREAS

A. Weeds Controlled and Suppressed

SOLICAN DF at recommended rates controls the following weeds:

Broadleaf Weeds (Dicotyledons)

Black mustard Brassica nigra Camphorweed* Heterotheca subaxillaris Carolina (Wild) geranium Geranium carolinianum Common chickweed Stellaria media Ambroisia artemisiifolia Common ragweed* Calandrinia ciliata Desert rockpurslane (redmaids) Dogfennel Eupatoria capillifolium Falsedandelion Pyrrhopappus carolinianus (smooth cat's ear) Fiddleneck Amsinckia intermedia Filaree Erodium spp. (redstem & whitestem) ** Flixweed Descurainia sophia Goldenrod* Solidaga altissima Little mallow Malva parviflora London rocket Sisymbrium irio Pineapple weed Matricaria matricariodes Prostate spurge Euphorbia humistrata Puncturevine Tribulus terrestris Purple cudweed Gnaphalium purpureum Shepherdspurse Capsella bursa-pastoris Spreading dayflower* Commelina diffusa Urtica dioica Stinging nettle Tumble mustard (Jimhill) Sisymbrium altissimum Velvetleaf Abutilon theophrasti Virgi.ia pepperweed Lepidium virginicum Wild buckwheat Polygonum convolvulus

Grass and Sedge Weeds (Monocotyledons)

Annual bluegrass Annual sedge Bahiagrass (seedling) Barnyardgrass Bearded sprangletop Broadleaf signalgrass Cheat Crabgrass Crowfootgrass (seedling) * Downy brome Fall panicum Feather fingergrass Foxtails

Poa annua Cyprus compressus Paspalum notatum Echinochloa crus-galli Leptochloa fascicularis Brachiaria platyphylla Bromus secalinus Digitaria spp. Dactyloctenium aegyptium Bromus tectorum Panicum dichotomiflorum Chloris virgata Setaria spp.

Goosegrass Guineagrass (seedling) * Italian ryegrass (annual ryegass) Johnsongrass (seedling) Natalgrass (seedling) * Pangolagrass (seedling) *

and Field) * Sixweeks grama

Southwestern cupgrass Tall fescue

Texa_ panicum Vaseygrass (seedling) * Wild barley Wild onion

Witchgrass

Eleusine indica Panicum maximum Lolium multiflorum

Sorghum halepense Rhynchelytrum repens Digitaria decumbens Sandbur (Longspine, Southern Cenchrus spp.

> Bouteloua barbata Eriochloa gracilis Festuca arundinacea Panicum texanum Paspalum urvillei Hordeum leporinium Allium canadense Panicum capillare

SOLICAM DF applied at recommended rates suppresses the following grass and broadleaf weeds:

Bermudagrass Common lambsquarters Common Mallow Common purslane Florida pusley* Groundsel Hairy fleabane (flax-leaved fleabane) Henbit Horseweed (marestail) Johnsongrass (rhizome) Nutsedge Orchardgrass Pigweeds (redroot, tumble and green amaranth)

Plaintains (bracted and

buckhorn) Poorjoe Russian thistle Quackgrass

Silverleaf nightshade Sowthistle, Annual

Torpedograss*

Wirestem muhly (Western

muhly)

Cynodon dactylon Chenopodium album Malva neglecta Portulaca oleracea Richardia scabra Senecio vulgaris Conyza bonariensis

Lamium amplexicaule Conyza canadensis Sorghum halepense Cyperus spp. Dactylis glomerata Amaranthus spp.

Plantago spp.

Diodia teres Salsola iberica Agropyron repens Solanum elaeagnifolium Sonchus oleracea Panicum repens Muhlenbergia frondosa

*When applied at the higher rates recommended for weed control(in Florida.

**Treat prior to germination and incorpor te with water on coarse and modium soils for adequate control.

B. Tree fruits and nuts, caneberries and grapes crop directions

SOLICAM DF should be applied prior to weed seed germination and when rainfall or irrigation is likely to occur within 4 weeks of treatment.

The soil should be settled, firm and relatively free of weeds and debris at the time of application. Soil should be free of depressions around trees or grape vines where rain or irrigation water can concentrate.

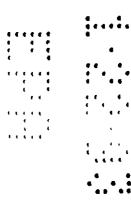
Apply as a directed spray to the soil. Avoid contact with fruit or foliage. Do not apply when nuts or fruits are on the ground at harvest.

Loss of pigment (whitening) of leaf veins may occur in almonds, cherries and grapes grown in coarse textured soils when SOLICAM DF is applied within 3 months after bud break.

Multiple or sequential applications can be made, but the total quantity of SOLICAM® DF applied during a year must not exceed the maximum recommended rate for that crop and soil texture. Rainfall or irrigation is necessary to incorporate SOLICAM® DF after each application.

SOLICAM® DF is recommended for application using at least 20 gallons of water per acre with suitable nozzles and pressure for directed ground application. Applications at less than 20 gallons should use appropriate low volume application equipment. Supplemental applications may also be made in citrus using ring drench techniques or chemigation through low volume sprinkler or drip irrigation systems (see Special Directions for tree fruits and nuts, caneberries and grapes section III-B-1 for additional information). Chemigation can only be used in citrus crops.

Read mixing, application and specific crop sections for additional recommendations and precautions. The following table lists the maximum rate of SOLICAM® DF that can be used per year based on crop, soil texture and location of use (Read sections following for addition recommendations and precautions):



MAXIMUM SOLICAM" DE RATES (LBS. PRODUCT/TREATED ACRE PER YEAR) BY SOIL TEXTURE

	Coa	Coarse		Fine			
Crop	Sand, Loamy sand	Sandy loam	Loam, Silt loam, Silt, Sandy clay loam	Sandy clay, Clay loam, Silty clay loam, Silty clay, Clay	Months after planting to first allowed application (West/East of the Hississippi River)	Months after application to planting of replacement or rotational crop (West/East of the Hississippi River)	Special use directions (see list below)
Citrus	2.5 - 5.0	2.5 - 5.0	3.75 - 5.0	5.0	0/0	0/0	2
Irrigated Citrus (Florida arri Texas only)	2.5 - 10.0	2.5 - 10.0	3.75 - 10.0	5.0 - 10.0	0/0	0/0	1,2
Apple	2.5	2.3	3.75	5.0	0/0	0/0	3
Avocado Blueberries Filbert	2.5	2.5	3.75	5.0	6/6	12/12	3
Asperague	2.5	2.5	3.75	5.0	12/12	12/12	3,9
Nectarines Peach Pecan	2.5	2.5	3.75	5.0	18/6	18/12	3,6
Apricot Blackberry Pear Plum Prune Raspberry Welnut	2.5	2.5	3.75	5.0	18/12	18/12	3,7
Almond -	1.25	2.5	3.75	5.0	18/18	18/18	3,4,5,8
Cherry:	1 figt	2.5	3.75	5.0	18/18	18/18	3,4
Grape	' 25	2.5	J.75	5.0	24/24	24/24	3,4,5,10

or will be planted, or where citrus is interplanted with palm trees. See following section for ring drench application directions.

- 3) Do not apply in nursery situations.
- 4) Loss of pigment (whitening) in leaf veins may occur on almonds, cherries or grapes grown in coarse textured soils when SOLICAM DF is applied within 3 months after bud break.
- 5) A registered tank mix partner may be required for broad spectrum control.
- 6) A higher rate of 3.75 lbs. of SOLICAM® DF may be used in coarse textured Coastal Plains soils of the Southeast.
- 7) Apply to blackberries and raspberries during the dormant season. Temporary loss of pigment (whitening) in leaf veins may occur with normal use.
- 8) See following sections for pre-harvest application directions for almonds.
- 9) See Asparagus Use Directions.
- 10) Do not apply to wine grapes grown in coarse soil in the state of Washington.



B.1. Special Directions for Citrus and Almonds.

Almords - Pre-Harvest Application

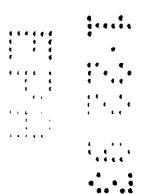
SOLICAM DF may be used as a soil applied praemergence treatment prior to almond narvest. SOLICAM DF applied in this ranner should be incorporated with 0.5 inches of irrigation water prior to weed germination and shaking or nut drop.

Citrus - Ring Dranch Application (Florida Citrus Only)

Apply SOLICAM DF to newly planted (non-bearing) citrus as a ring drench treatment at the rate of 10 lbs. product broadcast per acre. Make only one application per year. Consult the following table for the ounces of SOLICAM DF to add to a 500-gallon water tank for various diameter rings.

OUNCES OF SOLICAM DF PER 500 GAL FOR RING DRENCH APPLICATION

<u></u>	Diameter of ring				
	3 ft.	4 ft.	5 ft.		
3 gals./tree (167 trees/tank)	4.3	7.6	12.0		
5 gals./tree (100 trees/tank)	2.6	4.6	7.2		
7 gals./tree (71 trees/tank)	1.8	3.3	5.2		
10 gals./tree (50 trees/tank)	1.3	2.3	3.6		



Citrus - Chemigation (Citrus Crops Only)

Low volume sprinkler - 4 to 50 gallons per hour (gph) per emitter, drip - 0.5 to 3 gph per emitter. Point of application should be above ground.

Irrigation system should run a sufficient amount of time prior to SOLICAM® DF injection to have all emitters functioning properly. After system is operating properly, length of injection should be such that at one period of time during the injection, the first and last emitters in the system contain SOLICAM® DF treated water. Add SOLICAM® DF to the supply tank already filled with the volume of water required for the injection period (this should be at least four (4) gallons for each pound of SOLICAM® DF used). Maintain proper agitation in SOLICAM® DF injection tank. SOLICAM® DF should be mixed in clean water and injected down-line from filters. Following SOLICAM® DF injection, system should be flushed for a period of time sufficient to clear the line of SOLICAM® DF. (If SOLICAM® DF application is made during a normal irrigation cycle, injection should be made during the late stage.)

Apply this product only through low volume sprinkler (micro sprinkler) and drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system used for esticide application to a public water system unless the prescr. Led safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, must shut the system "own and make necessary adjustments should the need arise."

Application of SOLICAM DF through irrigation systems should be used as a supplemental weed control practice. The addition of SOLICAM DF through irrigation systems will help prevent weed escapes at the irrigation point when the application is made before weed seeds germinate.

Chemigation Calibration (Citrus Crops Only)

Calculation of use rate is based on <u>wetted area</u> around emitters - <u>NOT</u> on tree acres. To determine correct amount of SOLICAM® DF, use the following formula:

1. Treated area per each emitter - A

 $A = 3.14 \times (radius \times radius)$

Example: If the average distance from emitter to perimeter of wetted area, measured one inch below soil surface is 13 inches, then

 $A = 3.14 \times (13'' \times 13'')$

 $A = 3.14 \times (169")$

A = 530.7 square inches

2. The area in square feet wet in each acre = B
B = A x emitters/acre
144

Example: If there are 300 emitters per acre, then $B = 530.7 \times 300 = B = 1105.6$ square feet wetted per acre.

3. The total area (in square feet) wet by your system = C C = B x acres covered by system

Example: If the system covers 20 acres, then C = 1105.6 square feet per acre x 20 acres

C = 22,112 square feet wetted by system4. Amount of SOLICAM DF to inject = S

Example: If the desired application rate per treated acre is 2.0 lbs of SOLICAM® DF, then

 $S = 22.112 \times 2.0 = S = 1.02$ pounds of SOLICAN DF 43,560 should be injected into the system.

(Note: Select the proper rate (R) based on soil texture, weeds to control and length of control required. The total 'Amount of Solicam applied in a season from broadcast, ring dranch and/or supplemental chemigation applications cannot exceed the maximum rate stated in section III-C.)

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PRECAUTIONS FOR ALL SPRINKLER OR DRIP CHEMIGATION APPLICATIONS

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6.Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7.Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8.Application when drift may occur, such as from windy conditions, or when system joints and connections are leaking, or when nozzles are not providing uniform distribution, may cause crop injury.
- 9.Application should be directed in such a way that SOLICAM DF not come into contact with foliage.

ADDITIONAL PRECAUTIONS FOR CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

- 1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 indivir als daily at least 60 days out of the year.
- 2.Chemigation system: Innected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There must be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. All chemigation systems connected to public water systems must also follow restrictions listed in the preceding section titled "Precautions for All Sprinkler or Drip Chemigation Applications".

B.2. Tank mix recommendations for certain tree fruits and nuts, caneberries and grapes

Tank mixes are usually required to control the entire spectrum of weeds found in a particular grove, orchard or vineyard. Tank mix herbicides must be registered for use on crop where application is intended (Refer to the tank mix section II.B. of this label for specific directions).

Tank mix products for use with SOLICAM DF may include diuron (Karmex), Goal, Gramcxone, bromacil (Hyvar), Krovar I and II, Roundup, simazine (Princep) or Surflan if the herbicide is registered for the intended crop and use pattern. SOLICAM DF tank mix combinations should not include more than one of the following herbicides: diuron, Hyvar, Krovar, or simazine.

Tank mix herbicide(s) must be registered for use on crop where application is intended. The following table summarizes some of the common tank mix options with SOLICAM DF by crop (/ = tank mix option). If a tank mix is not listed below but both products have that crop individually listed on their larel you may use that combination in accordance with the directions for use for each product.

EXAMPLE TANK MIX COMBINATIONS BY CROP

	diuron	Goel	Gramoxone	Hyvar	Krovar	Prowl	Roundu P	simazine	Sinbar	Surflar
Almond		7	1			1	√ .	1		✓
Apple	1	1	1			1	1	₹	✓	J
Apricot		✓	✓			√	/			✓
Avocado	•	-	✓				· /	1		-
Blackberry	1		1					<u> √</u>	1	√
Blueberries	1		1		i -			1	√	1
Cherry		1	✓			1	1	1	-	7
Citrus	1	√*	1	1	1		1	7	1	J
Filbert		1	1	•			J	1		
Grape	1	1	1			1	1	√	-	1
Nectarine		√	√			7	1			1
Peach	1	√		-		√	1	V	7	1
Pear	1	✓	✓			7	1	√		1
Peçan	J	✓	√				1	✓	√	✓
Plum			/		· · ·	1	1	1		
Prune		ý	√			/	1			1
Raspberry	1		1					✓		√
Walnut			✓			1	√	7		

^{*} For use in non-bearing citrus.

Tank mix with a postemergence herbicide such as Gramoxone or Roundup when emerged weeds are present. Diuron (Karmex), Goal, Hyvar and Krovar I and Krovar II may provide postemergence control of certain weeds in addition to their residual preemergence control. Other herbicides listed for tank mix combinations will provide only preemargence activity. For control of additional weeds, products must be applied prior to weed emergence. Consult the use directions of the tank mix herbicide for specific weeds controlled.

Read and follow the label of each tank mix herbicide used for precautionary statements, directions for use, weeds controlled, and geographic and other restrictions.

C. Asparagus Directions

The soil should be settled, firm and relatively free of weeds and debris at the time of application. Soil should be free of depressions around asparagus where rain or irrigation water can concentrate.

Apply SOLICAM DF in a minimum of 20 gallons of water per acre as a broadcast preemergence treatment. Use the rates listed in the

following table. Do not apply within 14 days of harvest. SOLICAM[®] DF should not be applied if crop rotation or replacement is expected within 12 months (see the Rotational Crop section (II.A) for additional precautions).

Allow newly planted fields (direct seeded, seedlings or crowns) to become established for one season before application of SOLICAM® DF.

Improved results may be obtained if crop debris is incorporated or removed prior to application.

Select the rate of SOLICAM® DF to use from the following table:

ASPARAGUS: MAXIMUM SOLICAM DF RATES (LBS. PRODUCT/TREATED ACRE PER YEAR) BY SOIL TEXTURE

	Cor	L25	HediumFine				
Crop	Sand, Lossy sand	Sandy Loam	Losm, Silt losm, Silt, Sandy clay losm	Sandy clay, Clay loam, Silty clay loam, Silty clay, Clay	first allowed planting application replace (West/East of the Hissiskippi (West/E		
Asperagus	2.5	2.5	3.75	5.0	18/18	18/18	

C.1 Tank Mix Recommendations for Asparagus

Tank mix herbicides must be registered for use on crop where application is intended (Refer to the tank mix section II.B. of this label for specific directions).

SOLICAM DF may be tank mixed with other herbicides registered for use in asparagus such as BANVEL, diurch (Karmex), Gramoxone, Lorox, Roundup, metribuzin (Sencor, Lexone), simazine (Princep), trifluralin (Treflan) or 2,4-D(amine) when a broader spectrum of weeds would be expected. Consult the label(s) of the individual tank mix product(s) for specific recommendations on rate, application timing, weed species and crop safety. Follow directions, restrictions and precautions listed on the respective tank mix product label.

III.D. Non-Cropland Directions
SOLICAM® DF may be used for preemergence weed control in noncropland areas including: industrial sites, right-of-way
(highway, pipeline, railroad or utility) and other non-cropland
areas.

Apply SOLICAM DF at a rate of 2.5 to 5 pounds of product per treated acre for non-cropland areas. Higher rates within the range should be used for finer textured soils = " where longer residual is desired.



Since SOLICAM DF is a preemergence herbicide it must be applied to the soil surface before weeds germinate. Existing weeds should be mechanically removed or controlled with a suitable postemergence herbicide. SOLICAM DF must be incorporated into the soil by rainfall or sprinkler irrigation within 4 weeks of application for best weed control.

D.1 Tank mix recommendations for non-cropland Tank mix herbicides must be registered for use on non-crop situation where applica:ion is intended (Refer to the tank mix section II.B. of this label for specific directions).

Tank mix combinations may be desired for broader spectrum preemergence control or postemergence control of emerged weeds or woody shrubs. SOLICAM DF may be tankmixed with Arsenal, atrazine, BANVEL, diuron (Karmex), Garlon (amine), Gramoxone, Hyvar, Krovar, Oust, Roundup, Spike, simazine (Princep), Surflan, Telar, Velpar or 2,4-D (amine). Refer to the use directions of the respective tank mix herbicide for additional weeds controlled, rates and precautions.

IV. Warranty and Conditions of Sale

Limited Warranty And Liability

Sandoz Crop Protection Corporation warrants that the chemical composition of this product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. Sandoz makes no other warranty, express or implied, concerning the use of this product other than as indicated on the label. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given on the label.

V. STORAGE AND DISPOSAL

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

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate i a violation of Federal law. If waste cannot be disposed of by use of label instructions, contact your state pesticide or environmental control agency or hazardous waste representative at the nearest EPA Region Office for guidance.

Container Disposal: Completely empty and triple rinse container into application equipment. Then dispose of empty container 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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Hyvar, Karmex, Krovar, Lexone, Lorox, Oust, Telar and Velpar are registered trademarks of E.T. duPont de Nemours. Princep is a registered trademark of Ciba-Geigy Corp. Roundup is a registered trademark of Monsanto Co. Sencor is a registered trademark of Bayer AG, Germany. Garlon, Spike, Surflan and Treflan are registered trademarks of DowElanco Products Co.

