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Pyramin

Herbicide

BASF

EPA Reg. No. 7969-50

KEEP OUT OF REACH OF CHILDREN.

CAUTION

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Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT:
In case of contact: for skin, wash with plenty of soap and water; for eyes, flush with plenty of water,
and get medical attention if irritation persists.

Shake well before using. Net Contents — 2½ Gallons

BASF Corporation Parsippany, New Jersey 07054 SPECIMEN LABEL

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Directions For Use

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

Among the weeds controlled by Pyramin' FL herbicide are lambsquarters, pigweed, ragweed, shepherdspurse, fanweed, purslane, nightshade, mustard, henbit, smartweed, nettleleal gooseloot and velvetleaf (Michigan and Ohio enly).

Pyramin FL will not consistently provide acceptable control of annual grasses. Where grasses are a serious problem, follow directions on this label for control of grasses with specific combinations featuring Pyramin FL or use a separate treatment for grasses labeled for use in sugar beets or red table beets.

The correct method of application for Pyramin FL varies depending on area and cultural practices. Always follow the label recommendations which fit your area and cultural system. Check with local experts to ensure that you are applying Pyramir FL according to label directions.

See sections entitled Mixing Directions and Precautions.

For band treatments see section entitled Band Treatment in each crop section.

Mixing Directions

Use 20 to 40 gallons of water per acre, broadcast basis, or proportionately less for banded applications.

Fill sprayer tank halfway with water. Start agitation with a mechanical or good bypass agitator. Assure adequate hydraulic agitation. While agitating, add the required amount of Pyramin FL. Add water to fill tank to required volume.

Continue agitation during spraying. Mix only the amount of spray that will be used immediately.

Precautions Restrictions and Limitations:

Do not use this product on soils classified as sands or loamy sands because this may result in crop injury.

Do not use preemergence on muck and peat.

Do not use on soils with organic matter higher than 5%, except in the Red River Valley (see special section), or less than 21/2% in Michigan (Ohio for velvetleaf control (see special section), since this may result in unsatisfactory weed control or crop injury.

Do not use Pyramin FL as a broadcast treatment in the dry irrigated regions.

If the beet crop is lost due to climatic or soil conditions following application of Pyramin FL, do not plant other crops in the land treated with Pyramin FL during the same season. If fields are replanted to sugar beets, resead into the treated band. Do not use Pyramin FL

Always follow the restrictions and limitations for all products used in a test mix The most restrictive labeling applies. again as a preemergence treatment on the replanted

beets because crop injury may result.

Do not use the same spray equipment for other purposes unless thoroughly cleaned. Coarse sprays are less likely to drift. Do not store near fertilizers, seeds. insecticides or fungicides. Do not contaminate water used for irrigation or domestic purposes.

Where this material is used in combination with TCA. do not use treated beet tops for feed or forage.

Observe all cautions and limitations on tabeling of all products used in mixtures.

Environmental Hazards

Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

Storage and Disposal

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

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Triple rinse container (or equivalent). 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.

SUGAR BEETS

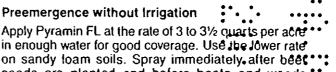
Two applications of Pyramin FL can be used in the Central and Eastern states only. Do not apply more than a total of 7¼ quarts per acre per season as excessive chemical residue may result.

Preemergence Applications

CENTRAL AND EASTERN STATES .:. (MI, MN, ND, OH)

General Information

Preemergence without Irrigation



on sandy loam soils. Spray immediately after beet seeds are planted and before beets and weeds emerge.

Where dry weather follows application and weeds emerge, use a shallow cultivation before weeds are 2 inches tall. Otherwise, do not disturb or cover the treated band.

MINNESOTA, NORTH DAKOTA

For Soils with Organic Matter of 5% to 7%

In the Red River Valley only, for the control of redroot and prostrate pigweeds, common lambsquarters and wild mustard in soils with organic matter content of 5% to 7%, apply Pyramin FL at the rate of 7¼ quarts per acre as a single preemergence application. Spray immediately after beet seeds are planted and before beets and weeds emerge. Do not follow with a postemergence treatment of Pyramin FL. Do not use the 7¼ quarts rate on soils with organic matter higher than 7% or less than 5% since this may result in unsatisfactory weed control or crop injury, respectively.

Where dry weather follows application or where annual grasses are also a problem, refer to section entitled **Preemergence without Irrigation.**

MICHIGAN AND OHIO

For Velvetleaf Control

In Michigan and Ohio only, for the control of velvetleaf, apply Pyramin FL at the rate of $5\frac{3}{4}$ quarts per acre as a single preemergence application. Spray immediately after beet seeds are planted and before beets and weeds emerge. Do not use the 5^{3}_{4} quarts rate on soils with organic matter higher than 5% or less than $2\frac{1}{2}\%$ since this may result in unsatisfactory weed control or crop injury, respectively.

Where dry weather follows application or where annual grasses are also a problem, refer to section entitled **Preemergence without Irrigation.**

PLAINS, MOUNTAIN AND WESTERN STATES (CA, CO, ID, KS, NE, OR, TX, UT, WA, WY)

Preemergence with Sprinkler Irrigation

If sprinkler irrigation is used, apply Pyramin FL as a banded surface preemergence application. Do not incorporate Pyramin FL where sprinkler irrigation is to be used, as crop injury may result. Do not use broadcast treatments. Prepare the seedbed and preirrigate to the field capacity of the soil. Plant seed 34 to 1 inch deep.

Immediately, or within 3 days after planting, apply Pyramin FL at the rate of 3 quarts per acre on low organic matter loam soils or 3½ quarts per acre on loam and clay soils. Follow directions for banded treatments (see section entitled **Band Treatment**) and adjust application rates accordingly. Follow with no more than 34 inch of sprinkler irrigation per set before beets and weeds emerge, as greater amounts may cause beet injury. Repeat as needed to get good beet emergence. Do not exceed 34 inch of sprinkler irrigation per set until the beets have 2 true leaves. (Do not count the cotyledonary leaves, which are the first 2 leaves to appear.)

Preplant Incorporation with Furrow Irrigation

On fields to receive furrow irrigation, use the following planting procedure. Prepare seedbed or form beds for planting. On low organic matter and sandy loam shils, apply and incorporate Pyramin FL at the rate of 3 quarts per acre. On loams, silt loams and clays, use the 3½ quarts per acre rate. Follow directions for banded treatments (see section entitled **Band Treatment**) and adjust application rates accordingly. Use a rotary tiller type of incorporator and incorporate not more than 2 inches deep. Plant beets and fu: row irrigate. Since Pyramin FL must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted.

Repeat furrow irrigation as often as necessary to ensure good beet emergence and growth. Sprinkler irrigation can be substituted for furrow irrigation after the beets have developed 2 true leaves. (Do not count the cotyledonary leaves, which are the first 2 leaves to appear.)

To assure planting into treated bands, do the following things all in one tractor operation: (1) spray Pyramin FL, (2) incorporate, and (3) plant beets. Treat a band 1 or 2 inches wider than the tiller head used. Do not incorporate Pyramin FL with a disk because unsatisfactory weed control and sugar beet injury may result.

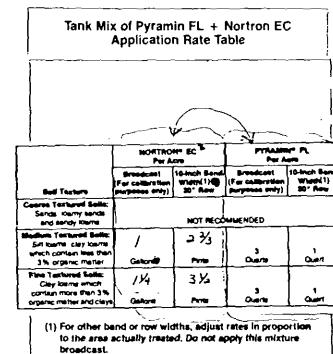
Tank Mixes

Pyramin' FL + TCA herbicides (Michigan, Minnesota, N. Dakota, Ohio)

Where annual grasses are also a problem, apply 4 lbs. to 8 lbs. per acre of TCA with the recommended rate of Pyramin FL. Follow label directions for both products.

Pyramin' FL + Nortron' EC herbicides tor... Winter-grown Sugar Beets in California

In fields where wild oats and volunteer cereals are bx pected to be a problem, use a tank mixture of Pyfamin FL plus Nortron at recommended rates listed in the following rate table. When mixing Pyramin FL in the spray tank with Nortron. add Pyramin FL first and agitate spray solution thoroughly; then add Nortron.



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(2) Nortron EC (1.5 lb. active ingredient per gelion).

Under sprinkler irrigation or where natural rainfall is adequate, apply this tank mix preemergence. See Preemergence with Sprinkler Irrigation above for directions and precautions regarding application of sprinkler irrigation. Where furrow irrigation is to be used, apply this tank mix preplant. See Preplant Incorporation with Furrow Irrigation above for directions and precautions regarding application of furrow irrigation. Do not use the mixture under conditions where Nortron alone is not recommended. Before use, read label for Nortron for additional information and precautions.

Pyramin FL' + Antor' 4ES herbicides (In California, Northwest, Intermountain States, Michigan and Ohio)

For control of a mixed population of weeds included on the labels for Pyramin' FL and Antor' 4ES herbicides, apply a tank mix according to the directions presented below by region. Observe all cautions and limitations on labeling of both products.

Mixing directions: Add Pyramin FL to half the spray volume of water, agitate spray solution thoroughly, and then add Antor 4ES. Agitate while filling to final spray volume and during spraying.

California

For preplant incorporation with furrow irrigation, apply the tank mix to the soil surface prior to, or at time of planting and incorporate to a depth of 1 to 2 inches using a rotary type tiller. Use the recommended rates in **Application Rate Table.** Irrigate until tops of beds are thoroughly wetted.

For preemergence application with sprinkler irrigation, apply the tank mix to the soil surface at time of planting or shortly after, but prior to weed germination, using the rates recommended in **Application Rate Table**. Irrigate prior to crop and weed germination. Follow directions and precautions on this label for use preemergence with sprinkler irrigation. Do not exceed 34 inch of sprinkler irrigation per set until the sugar beets have two true leaves.

Northwest, Intermountain States

For use preemergence under sprinkle, irrigation only, apply the tank mix to the soil surface at the time of planting or shortly after, but prior to weed germination, using the rates recommended in **Application Rate Table**. Irrigate prior to crop and weed germination. Follow directions and precautions on this label for use preemergence with sprinkler irrigation. Do not exceed 34 inch of sprinkler irrigation per set until the sugar beets have two true leaves.

Michigan and Ohio

For use preemergence without irrigation, apply the tank mix to the soil surface at the time of planting or shortly after, but prior to weed germination using rates recommended in **Application Rate Table**.

Tank Mix of Pyramin FL + Antor 4ES

Area	Soil Texture	Broadcast Rate (Quarts/Acre) (1)	
		Pyramin FL	Antor 4ES
California, Northwest, Intermountain States, Michigan and Ohio	Coarse: Sandy loams only	2'⁄?	2
	Medium: Loams, sitt loams and clay loams containing less than 3% organic matter	• • • • • •	2 (\$ 3 (2)
	Fine: Clay loams and clays containing 3%-5% organic matter.	• • • •	3•

Postemergence Application

(ALL STATES) General Information

Timing is very important. Observe weed growth daily. Treat after beets have 2 expanded true leaves (do not count the cotyledonary leaves, which are the first 2 leaves to appear) and before any weeds have more than 2 to 4 true leaves. Treatments on larger weeds will not be effective.

Good soil moisture *prior* to treatment is necessary. If soil is dry, irrigation is recommended prior to chemical application. For optimum performance, a postemegence application should be followed with moisture. Where furrow irrigation is possible, irrigate shortly after application to the point that top surface of beds has reached maximum water-holding capacity. If sprinkler irrigation is used, do not apply more than $\frac{3}{4}$ inch of water on the first set after the herbicide is applied.

Do not apply Pyramin FL if weeds are stressed by lack of moisture, excessive heat, high winds, frost or low temperature, as insufficient weed control may result. Wait until more favorable conditions prevail before applying.

In the Central and Eastern States, these combinations can follow preemergence use of Pyramin FL provided a total of 7¼ quarts Pyramin FL per acre per season is not exceeded.

The addition of a surfactant such as <u>Gitowett</u>: <u>Plus</u> spreader sticker adjuvant of its equivalent often improves results of postemergence treatments. However, certain surfactants will seriously injure sugar beets. Consult your Experiment Station or Extension Service Weed Specialist for the suggested surfactant in your area.

Tank Mixes

Pyramin FL + Nonphytotoxic Emulsifiable Oil

Addition of a nonphytotoxic emulsifiable oil to Pyramin FL may improve broadleat weed control and allow greater flexibility in timing of successful applications relative to size of weeds. Apply 3 to 3½ quarts Pyramin FL per acre according to soil type and organic matter content with 1 gallon of nonphytotoxic, emulsifiable oil per acre (broadcast basis). Use sufficient spray solution for good coverage, 40–100 gallons per acre treated. Use a nonphytotoxic oil containing 2% emulsifier and characterized as having an unsulphonated residue of over 95%.

Add Pyramin FL first to half the spray volume of water and mix thoroughly in the spray tank; then add the emulsifiable oil with the agitator running. Finally, fill the tank with water to required volume.

Do not use oil when maximum temperatures are ex-

pected to exceed 90°F at any time during the five-day period following the application, as excessive cropinjury may result.

For specific directions for using a nonphytotoxic oil with Pyramin FL in your locality and for recommended brands of oil to use, consult your local State Extension Wood Specialist Sugar company fixed maner BASF Increased temporary sugar beet injury has been observed where Pyramin FL in combination treatments has followed preplant applications of Tillam' or Ro-Neet' herbicides.

Pyramin' FL + Dalapon herbicides

Where grass and broadleaf weeds are present, use 3 to 3½ quarts of Pyramin FL per acre mixed with dalapon, according to state recommendations and directions on the dalapon product label.

Where broadleaf weeds are the principal problem, use Pyramin FL with 1 gallon per acre of nonphytotoxic, emulsifiable oil (for directions, see above). These mixtures may burn beet leaves or cause temporary stunting under some conditions. Do not apply when sugar beet foliage is wet.

Pyramin' FL + Betanal' EC herbicides

For broad spectrum weed control including pigweed, kochia, wild buckwheat, lambsquarters, smartweed, mustard, nightshade, ragweed and green and yellow foxtails, combine 3 quarts of Pyramin FL and 3 quarts of Betanal per acre. This combination provides residual as well as quick postemergence weed control. Follow the directions on the labels of both products. Add the Betanal to the half-full spray tank after the Pyramin FL is adequately suspended. Do not add additional surfactants to the mixture. Do not apply in more than 30 gallons of water per acre.

Band Treatment

When spraying a band over the row, the amount of Pyramin FL applied per banded acre is reduced in proportion to the area actually treated. Example: to spray a 7-inch band over beets in rows 28 inches apart, the amount of Pyramin FL applied per 0an0e0 acre is ¼ the amount recommended for broadcast applications. Three quarts/acre x ¼ of area banded -----¼ quart per banded acre.

Band and Row Width	Querte Pysamin FL Per Banded Acre for Breadcast Rate of:	
	3 • Quarts/Aore	3½ Quarts/Acre
7-inch band on 22-inch rows 7-inch band on 28-inch rows	1 ***	11/4
10-inch band on 22-inch rows 10-inch band on 28-inch rows	11/2 • • •	194 194

Using planter-mounted band sprayers ensures that all planted beets are treated, and that band width and rate of chemical are uniform.

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RED TABLE BEETS

Preemergence Application

Apply 3 to 3½ quarts per acre of Pyramin FL in enough water for good coverage. Use lower rate on sandy loam soils. Spray after beet seeds are planted but before beets and weeds emerge.

If rain does not fall within 5 to 10 days after treatment, beets should be irrigated to activate Pyramin FL. If irrigation is not possible, use a shallow cultivation before weeds are 2 inches tall.

Early Postemergence Application

Apply 3½ quarts per acre of Pyramin FL.

Timing is very important. Observe weed growth daily. Treat after beets have 2 expanded true leaves and before any weeds have more than 2 to 4 true leaves. This is usually within 2 weeks after planting. Treatment on larger weeds will not be effective.

Note: Pyramin FL may be used both pre and postemergence in the same season. Follow directions given on this label for each type of application.

Band Treatment

When spraying a band over the row, the amount of Pyramin FL applied per acre is in proportion to the area actually treated.

Beet Rows 24 inches apart	Quarts Pyramin FL Per Banded Acre for Broadcast Rate of:		
and band width of:	3 Quarts/Acre	3½ Quarts/Acre	
6-inch band	34	1	
12-inch band	1!5	13.	

CONDITIONS OF SALE

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF COR-PORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

BASF warrants that this product 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 inherent risks referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FIT-NESS OR MERCHANTABILITY OR ANY OTHER EX-PRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HAN-DLING OF THIS PRODUCT. BASF and the 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 BASF.

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