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86. LIONGE ACTOP Sangoz Ágro Inc. 1300 Louny Áve. Ses Flaines, 16. 60018

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Subject: Probe[®] 75 wettable Powder EFA Registration no. 55947-23 Application Dated April 10, 1992 To Decrease Dosages and To Update Environmental Hagards and warranty Statements, Label Revisions

ine proposed amendments to decrease dosages and to update invironmental mazards and warranty statements are acceptance under the lederal insecticide, sungicide and Rodenticide Act, as underco, provided that you:

- 1. Substitution of your product under (IFKA section) setsystration of your product under (IFKA section s(c)(c) when the Agency requires all registrants or similar products to submit such data.
- an admit five (5) printed copies of the final printed adveling before releasing the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with Flips, section 5(e). Your release of the product for snipment constitutes acceptance of these conditions.

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

Sincerely yours,

Joanne 1. Hiller Product Hanager (23) Fungicide-Herbicide Branch Registration Division (8-75050)

inclosure

L-WLISCHIPISKETTERABCL: 09-22-92

(CONTAINER LABEL)

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PROBE HERBICIDE

*2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3, 5-dione.

WARNING KEEP OUT OF REACH OF CHILDREN

See Right Side Panel for Additional Precautionary Statements

E.P.A. reg. No. 55947-23 E.P.A. Est. No. 335J0-TN-1

NET CONTENTS:

Sandoz Agro, Inc. 1300 East Touhy Avenue Des Plaines, Illinois 60018

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Harmful if swallowed, inhaled or absorbed through the skin or eyes. Do not get in eyes, on skin or on clothing. Avoid breathing dust or spray mist. Keep out of the reach of children. Avoid contamination of feed and foodstuff.

In case of skin contact, wash immediately with soap and water. Skin contact may result in acneform reaction. For eyes, flush with plenty of water for at least 15 minutes and get medical attention.

Wear impervious gloves and protective clothing when handling. Wash hands, arms and face thoroughly with soap and water before eating or smoking. Wash all contaminated clothing with detergent and hot water before re-use.

Do not contaminate domestic or irrigation waters. Observe all precautions on labels of all products used in tank mixtures.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Do not apply when weather conditions favor drift from areas treated.

Do not apply where runoff is likely to occur.

DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system.

Refer to the Use Directions Booklet attached to this container for proper use directions and additional precautionary statements. Apply this product only as directed on the label.

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STORAGE AND DISPOSAL

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Prohibitions

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

<u>Storage</u>

Store in original container in a well ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained, moistened, and carefully swept up avoiding inhalation of dust. Wash area of spill with detergent and water.

<u>Pesticide Disposal</u>

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

Container Disposal

Plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Plastic bags: Completely empty bag into application equipment. Then dispose of empty bag 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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WARRANTY AND CONDITIONS OF SALE

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.

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DIRECTIONS FOR USE BOOKLET

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PROBES HERBICIDE

A selective herbicide for use in cotton.

DIRECTIONS FOR USE

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

This labeling must be in the possession of the user at the time of the pesticide application.

EPA Reg. No. 55947-23

Not Registered for Use in Arizona or California

Sandoz Agro, Inc. 1300 E. Touhy Ave. Des Plaines, IL 60018

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Registered Trademarks

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PROBE HERBICIDE

I. GENERAL PRECAUTIONS

The following directions apply to all uses of PROBE Herbicide. Additional precautions and restrictions are noted in each specific use section.

Do not graze or feed forage from treated areas to livestock. PROBE is not recommended on alkali soils (pH > 8.0), or shallow soils with calcareous subsoils or out-croppings as crop injury may result.

Crops growing under stress conditions such as drought, disease, poor fertility or foliar damage due to hail, wind, sand blasting, or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Do not rotate with any other crops within one year of treatment, except cover crops, which must be plowed under and not grazed.

Consult your local or state authorities for possible application restrictions and advice concerning special local use situations.

Do not apply this product through any type of irrigation system.

II. DIRECTIONS FOR USE

PROBE is a selective herbicide for use in cotton. This product can be used postemergence as a directed spray in all areas and preemergence west of the Mississippi River. Post-directed applications can be made from when the cotton is 3 inches tall (early post) through lay-by.

III. MIXING AND APPLICATION

PROBE Herbicide should be applied in water solutions. Clean and calil ate the sprayer. Premix the proper amount of PROBE 75 WDG with a small amount of water. Add this mixture to the spray tank already filled with 3/4 of the required volume of water. Maintain agitation while filling the remaining wate and spraying. If spray mixture is allowed to settle at any time, thorough agitation is required to re-suspend the mixture before spraying is resumed. Keep by-pass line on and near bottom of tank to minimize foaming. Ground equipment with 50 mesh or coarser screens in the nozzles and in-line strainers should be used.

PROBE Herbicide may be applied as a directed, broadcast or band treatment. Apply the equivalent of 20-40 gallons of water carrier per acre on a broadcast basis.

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Thoroughly clean the sprayer immediately after use by flushing the system with water containing a detergent.

Do not allow PROBE Herbicide spray mixture to remain in the spray tank overnight because settling could occur and resuspension would be difficult.

A. Band Treatments

PROBE Herbicide may be applied as a band treatment. Use the formulas below to determine the appropriate rate and volume per treated acre.

Band Width <u>in Inches</u> Row Width in inches	х	Broadcast Rate per treated acre	= Band Rate per planted acre
Band Width <u>in Inches</u> Row Width in inches	x	Broadcast Volume per treated acre	= Band Volume per planted acre

B. Compatibility Test

Before mixing PROBE with other herbicides in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

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

HERBICIDE	RATE	LEVEL
FORMULATIONS	PER ACRE	TEASPOONS
Dry	1 lb.	1-1/2
Liquid	1 pt.	1/2

If herbicide(s) do not ball-up or form flakes, sludge, gels, oily films, layers or other precipitates, then the tested spray mix is compatible. Incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent approved for agricultural use is recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon is equivalent to 2 pints per 100 gallons of spray carrier).

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IV. PREEMERGENCE USES (Recommended for use only in cotton growing areas west of the Mississippi River)

A. Rates and Timings

PROBE Herbicide may be applied within 48 hours prior to planting and shallowly incorporated or applied immediately after planting, but before cotton emergence. If applied preemergence and rainfall (or irrigation, minimum of 1/2" of either) is not anticipated before weed emergence, a shallow incorporation may be used for activation. Rainfall sufficient for seed germination is adequate for activation of PROBE.

This product may be applied to flat planted, bedded, or furrow planted cotton. A band application must be used where cotton is planted in the bottom of the furrow. The width of the band application cannot exceed the width of the furrow bottom.

If replanting is necessary do not make a second application of PROEE as injury may result. No more than two post-directed applications of PROBE may be applied following a preemergence application of PROBE. Total amount of Probe applied in a season must not exceed 2 pounds of product per treated acre.

Use the following table to determine the recommended application rate based on soil texture and organic matter content:

BROADCAST	RATE	PER	TREATED	ACRE
(pounds	of PF	ROBE	Herbicio	je)

SOIL TEXTURE	Conventional Tillage Systems 2% or less organic matter	Conservation ¹ Tillage Systems 2% or less organic matter
COARSE SOILS sand	1.3'	1.5 - 2.0
loamy sand, and sandy loam	1.5 - 2.0	2.0
MEDIUM SOILS loam, silt loam, silt, sandy clay loam, and		
sandy clay	2.0	Not Recommended

 Conservation tillage systems include no-till, minimum till or reduced till systems. Conventional tillage rates should be used if row tillage is used.

 PROBE may only be used on sand soils when used at the listed rate and applied as a sequential overlay treatment following trifluralin or Prowl applied as a preplant incorporated treatment.

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B. Weeds Controlled (Preemergence)

PROBE will control the following weed species when applied according to preemergence label directions:

Common name

<u>Latin name</u>

Barnyardgrass* Crabgrass* Lambsquarter, Common Pigweeds Purslane, Common Sicklepod Sida, Prickly Spurge, Prostrate Thistle, Russian Echinocloa crus-galli Digitaria spp. Chenopodium album Amaranthus spp. Portulaca oleracea Cassia obtusifolia Sida spinosa Euphorbia humistrata Salsola iberica

* Heavy populations of these weeds are best controlled when PROBE is applied as a preemergence overlay treatment following trifluralin or Prowl applied preplant incorporated.

PROBE applied preemergence will suppress the following weeds:

Common name

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Cocklebur, Common Morningglory, Annual Nightshade, Black Nightshade, Hairy Sage, Lanceleaf (Mint weed) Sunflower, Prairie Unicorn-plant (Devil's claw) Latin name

Xanthium strumarium Ipomea spp. Solanum nigrum Solanum sarrachoides Salvia reflexa Helianthus petiolaris Proboscidea louisianica

C. Preemergence Tankm' xes and Sequential Overlay Treatments

PROBE Herbicide may be applied preemergence as a sequential overlay treatment following application of one of the following herbicides. PROBE may also be tankmixed with one of these herbicides if applied as a shallow but throughly incorporated preplant treatment:

HERBICIDE		MAXIMUM RATE PER EATED_ACRE (lbs. a.i.)
pendimethalin (Prowl) trifluralin (Treflan,	other brand names)	1.5 1.0

Special Preemergence Tankmix for Improved Control of Annual Norningglory, Lanceleaf Sage and Nutsedge.

PROBE Herbicide may be tankmixed with ZORIAL Rapid 80[®] for improved control of annual morningglory, lanceleaf sage and nutsedge (yellow and purple). Application rates for this combination are as follows:

PROBE Merbicide and SORIAL Rapid 80* BROADCAST TANKMIX RATE PER TREATED ACRE¹ (pounds of product)

SOIL '	TEXTURE ²	PROBE H	HERBICIDE	+ ZORIA	L RAPID	80		
COARS	E SOILS ³							
	sand and loamy sand	• • • •	D	o Not U	8e			
	sandy loam	• • • •	1	.5 + 0.	6			
MEDIU	M SOILS							
	loam, silt loam, silt, sandy clay loam, and sandy clay		1	.5 + 0.	6			
FINE	SOILS							
	<pre>silty clay loam, clay lo silty clay, and clay</pre>	-	1.5	-2.0 +	0.6			
1.	The combination should broadcast rate to calcul							the
2.	PROBE herbicide is not organic matter.	recomm	ended for	Boils	contain	ing more	than	21

3. Do Not Use this tank mix on soils containing more than 60% sand.

The PROBE + ZORIAL® combination may be tankmixed with Prowl and applied presence or applied as a sequential overlay following a trifluration or Prowl application.

The combination cannot be used on soils containing more than 60% sand. The combination should not be used in Gaines Co., TX.

The combination should only be used as a banded application and for up to 2 consecutive seasons to reduce carryover potential. For 16 months following the last ZORIAL application, treated acreage may only be rotated to cotton or soybeans. See the ZORIAL use directions for additional use precautions.

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V. POSTEMERGENCE USES

A. Rates and Timings

PROBE Herbicide may be applied as a post-directed spray when cotton is 3 inches or greater in height through lay-by. Do not exceed 1.0 lb. of PROBE Herbicide on cotton less than 6 inches in height.

Best control is obtained when weeds are small (< 2 inches). Lower recommended rates can also be used when weeds are small.

Minimize contact with cotton foilage and maximize contact with weeds by directing herbicide spray to the base of cotton plants.

Higher rates and/or sequential follow-up applications may be necessary where initial application is made to dense weed populations, or where weeds are moisture or temperature stressed. Repeat applications may be made as needed, however, the total amount of Probe applied in a season must not exceed 2 pounds product per treated acre for both preemergence and postemergence applications.

The following table lists the recommended rate of application for post-directed applications:

Crop Height ¹ (inches)	Weed Height (inches)	Broadcast Rate Per Acre ² (pounds of PRO	
3 to 6"	< 2"	0.66	0.20
	2-3"	1.00	0.32
>6" to Lay-by	0-3"	2.00	0.79

- 1. Do not exceed 1.0 pound of PROBE Herbicide on cotton less than 6 inches tall.
- 2. Use an agriculturally approved non-ionic surfactant at 0.25 v/v.
 - 3. Fand rate is based on a 12 inch band with 38 inch row spacing. Band rate must be adjusted for other band widths or row spacings (See Section III-A for band formula).

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B. Weeds Controlled (Post-Directed)

When applied as a directed postemergence spray according to label directions, PROBE Herbicide will control the following broadleaf weeds:

Common name	<u>Latin name</u>
Anoda, Spurred Carpetweed Cocklebur, Common Lambsquarters, Common Morningglory, Annual Pigweeds Purslane, Common Pusley, Florida Sesbania, Hemp Sicklepod Sida, Prickly (Teaweed) Spurge, Prostrate Spurge, Spotted	Anoda cristata Mollugo verticilliata Xanthium strumarium Chenopodium album Ipomea spp. Amaranthus spp. Portulaca oleracea Richardia scabra Sesbania exaltata Cassia obtusifolia Sida si nosa Euphorbia humistrata Euphorbia supina

C. Postemergence Tankrix and Sequential Overlay Treatments

1. Tankmixes

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PROBE Herbicide may be tank mixed with one or more of the following herbicides for control of grasses and improved control of broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings and other restrictions. Use an agriculturally approved non-ionic surfactant with all PROBE Herbicide postemergence tank mix applications.

<u>PROBE Herbicide plus DSMA.</u> Apply after cotton is three inches high and before the first bloom. Do not make more than two applications. Use 3.6 lbs. a.i. DSMA per treated acre.

<u>PROBE Herbicide plus MSMA.</u> Apply after cotton is three inches high and before the first bloom Do not make more than two applications. Use 2.0 lbs. a.i. MSMA per treated acre.

<u>PROBE Herbicide plus cyanazine (Bladex</u>). Apply after the cotton is six inches high. Use 0.6 to 1.0 lb. a.i. cyanazine per treated acre.

2. Overlay (Sequential) Treatments

PROBE Herbicide (ay be applied to ground previously treated with one or more of the following herbicides:

<u>HERBICIDE</u>	NAXINUM RATE PER TREATED ACRE (153. a.i.)
diuron (Karmex®, other name brands)	1.6
fluometuron (Cotoran®)	2.0
norflurazon (ZORIAL)	2.0
pendimethalin (Prowl®)	1.5
prometryn (Caparol®)	2.8
trifluralin (Treflan®, other brand n	mames) 1.0

Read and follow the label of each of the above products for precautionary statements, directions for use and other restrictions.

REGISTERED TRADEMARKS

Prowl is a registered trademark of American Cyanamid Company. Caparol and Cotoran are registered trademarks of Ciba-Geigy Corporation, Agricultural Division. Bladex and Karmex are registered trademarks of E. I. duPont de Nemours and Co., Inc. Treflan is a registered trademark of DowElanco. PROBE Herbicide and ZORIAL Rapid 80 are registered trademarks of

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