

ELANCO

0000
ID 5636

10509
PMD?



L.C.

A selective herbicide for preemergence control of certain annual grasses and broadleaf weeds

Active Ingredient:

ethalfluralin* N-ethyl-N-(2-methyl-2-propenyl)-2,6-dinitro-4-(trifluoromethyl)benzenamine	35.1%	35.5%
-------------------------------------------------------------------------------------------------	-------	-------

Inert Ingredients	64.9%	64.5%
-------------------------	-------	-------

Contains 3 pounds active ingredient per gallon.

*Sonalan®—the registered trademark for Elanco Products ethalfluralin (ethalfluralin, Elanco)

Keep Out of Reach of Children.

○ (F)

DANGER

WARNING

See back of container for additional precautionary statements.

YS-1695-AXX 00 0000 000

EPA Est. 1471-IN-2; 32761-MO-3
Superscript used is first letter of lot number
EPA Reg. No. 1471-122 XXX
FN-0802 FN5199

Contains Petroleum Distillate.

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes.

See a physician or an ophthalmologist immediately

MAY 11 1987

1471-156

EPA Reg. No. 1471-122

2001

Directions for Use

See literature on side of container for complete directions for use.
Read all directions carefully before applying.
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

WARNING

INSERT 1

~~Somaten[®] E.C. formulation is irritating to the eyes and skin. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing. Do not contaminate foodstuffs or feed. Harmful if swallowed or absorbed through the skin. Use protective clothing such as coveralls, long sleeved shirt, and impermeable gloves when handling or using this product.~~
~~First Aid: In case of contact, immediately flush eyes or skin with plenty of water. For eyes, call a physician. Remove and wash contaminated clothing before reuse.~~

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to any body of water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes. Runoff or erosion from treated areas may be hazardous to fish in neighboring areas.

STORAGE AND DISPOSAL

Storage: Avoid freezing. Store above 40°F (5°C). If frozen, poor weed control may result. Do not use or store near heat or open flame. Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

INSERT 2

~~**Pesticide Disposal:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.~~

INSERT 5

~~**Container Disposal:** 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.~~

The manufacturer makes no warranties, express or implied, concerning this product or its use, which extend beyond the description on the label or in literature published by Elanco Products Company, and all statements made concerning this product apply only when used as directed. Elanco Products Company expressly disclaims all warranties, express or implied, in relation to any use of the product in combination or sequential use with any other product not specifically recommended in writing by Elanco Products Company. If used in a combination or sequential use recommended by Elanco Products Company, the liability of Elanco shall in no manner extend to any damage loss or injury not directly caused by the inclusion of the Elanco product in such combination or sequential use.

Elanco Products Company • A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

WS-1105-A.IX 00 0000 060
2-3145-AMB 00 0000 060
J-5036 ID 0000

161****/EC**36/LABELS/US/****/217

Labeling revised January 7, 1986
Pr 2608-AMP

00 0000 000

ELANCO 0000
ID 5036-



A selective herbicide for
pre- and post-emergence control of
certain annual grasses and
broadleaf weeds

Active Ingredient:	
ethalfluralin* <i>N</i> -ethyl- <i>N</i> -(2-methyl-2-propenyl)-2,6-dinitro-4-(trifluoromethyl)benzenamine	35.1%
Inert Ingredients	64.9%
*Contains 3 pounds active ingredient per gallon.	

*Sonalan is the registered trademark for
Elanco Products ethalfluralin (ethalfluralin)
EPA Reg No. 1471-122-XXX
Elanco Products Company
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.
Copyright © 1986 by Elanco Products Company
1987

Contains Petroleum Distillate

Table of Contents		Page
Precautionary Statements		4
Storage and Disposal		4
General Agricultural Precaution		5
Rotational Restriction		6
Directions for Use		6
Mixing and Application Directions:		
L.C. Sonalan® E.C. Alone		6
L.C. Sonalan® E.C. Tank Mix		7
Application		8
Application with Liquid Fertilizer		8
Application with Dry Bulk Fertilizer		12
Sonalan Preplant Incorporated Application:		
Weeds Controlled		13
Soil Preparation		15
Soil Mixing Directions		16
Cultivation After Planting		16
Soil Texture Guide		17
Crop Recommendations:		
Soybean:		
Sonalan Alone		18
Sonalan/Amiben®		19
Sonalan/Dual®		20
Sonalan/Lasso®		21
Sonalan/Lexone®		24
Sonalan/Sencor®		24
Sonalan/Lasso®/Lexone®		26
Sonalan/Lasso®/Sencor®		26
Sonalan/Dual®/Lexone®		28
Sonalan/Dual®/Sencor®		28
Sonalan/Lorox®		30

Sonalan/Vernam®	31
Sonalan/Basagran®	32
Sonalan/Blazer®	33
Dry Bean:	
Sonalan Alone	34
Groundcherry and Nightshade Control - Special Instructions	34
Sonalan/Amiben®	35
Sonalan/Dual®	36
Sonalan/Eptam®	37
Sonalan/EPTC	37
Sonalan/Lasso®	38
Sonalan/Basagran®	40
Sunflower:	
Sonalan Alone	41
Sonalan/Amiben® Tank Mix or Overlay	41
Sonalan/Eptam® or Sonalan/EPTC Tank Mix	42
Sonalan Performance Guarantee	44
Disclaimer of Warranties	45
Limitation of Damages	45
Inherent Risks of Use	45

Precautionary Statements

Keep Out of Reach of Children

Hazards to Humans and Domestic Animals

DANGER

WARNING

Sonalan E.C. formulation is irritating to the eyes and skin. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing. Do not contaminate foodstuffs or feed. Harmful if swallowed or absorbed through the skin. Use protective clothing such as coveralls, long sleeved shirt, and impermeable gloves when handling or using this product.

INSERT 1

First Aid: In case of contact, immediately flush eyes or skin with plenty of water. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to any body of water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes. Runoff or erosion from treated areas may be hazardous to fish in neighboring areas.

STORAGE AND DISPOSAL

Storage: Avoid freezing. Store above 40°F (5°C). If frozen, poor weed control may result. Do not use or store near heat or open flame. Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

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. Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

INSERT 2

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

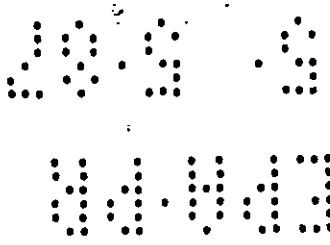
Metal Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Bulk/Mini-bulk Tank Handling: Tanks that have been used for phenoxy-type herbicides should not be used for Sonalan. To clean, triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

General Agricultural Precaution

Poor weed control and/or crop injury may result if directions are not followed. Uneven application, over

5



56-29

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

application or improper incorporation can result in erratic weed control or injury to the treated or rotational crops.

Do not graze or forage crop grown in treated soil or cut for hay or silage.

Do not apply Sonalan to soils which are wet, cloddy, or subject to prolonged periods of flooding because poor weed control or crop injury may result.

Do not apply to any area not specified on the label.

Rotational Restrictions

If replanting is necessary, replant only crops listed on this label. In California and Arizona, do not plant red beets, spinach or oats within eight (8) months following an application of three (3) pints per acre or more of Sonalan. In all areas do not rotate to sugarbeets the year following an application of Sonalan unless the Sonalan-treated soil is moldboard plowed to a depth of at least six (6) inches prior to planting sugarbeets.

Directions for Use

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

Sonalan is a preemergence herbicide that controls many annual grasses and broadleaf weeds. Sonalan controls weeds as they germinate. Sonalan will not control established weeds.

Mixing and Application Directions

Sonalan Alone

Start with a clean spray tank. Fill sprayer one-third (1/3)

6

to one-half (1/2) full with clean water or liquid fertilizer. Start agitation. Add correct quantity of Sonalan, continue agitation and finish filling the tank.

Sonalan Tank Mix

Vigorous, continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. To prevent foaming, avoid stirring or splashing air into the mixture during filling by placing the end of the fill pipe below the surface of the water in the spray tank. Do not allow the mixture to siphon back into the water source.

Mixing order: Fill the tank one-fourth (1/4) to one-third (1/3) full with clean water or liquid fertilizer. (See page 9 for additional liquid fertilizer mixing instructions). Start the agitation. Add in the following order: dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), or liquids (L) to the water and agitate until the product(s) are completely dispersed. Allow additional mixing and dispersion time when using dry flowable products. Continue agitation and fill tank to three-fourths (3/4) full, add the Sonalan or other emulsifiable concentrates (EC) and mix thoroughly. Then add any solution (S) formulations, agitate and finish filling. Maintain agitation during filling and through application. If spraying and agitation must be stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to resuspend all of the material in the bottom of the tank before continuing the spray application. A sparger agitator is particularly useful for this purpose. Sometimes it is more difficult to resuspend settled material than it is to suspend it originally.

7

(DF)

L.C.

INSERT 3

161****/LC**36/LABELS/US/P5199/35

60F 29

Read and carefully follow all label instructions for each material added to the tank. Premixing dry and flowable formulations with water (slurrying) and pouring the slurry through a 20 or 35 mesh wetting screen in the top of the tank will help assure good initial dispersion in the tank. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

If a buildup of material on the walls of the spray tank is observed, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean the tank, lines, and screens thoroughly after use. Check the sprayer daily to ensure proper calibration and uniform application. Do not apply Sonalan when the wind can cause drifting of spray particles which can result in non-uniform application.

Application

Apply Sonalan in at least five (5) gallons of water or liquid fertilizer per acre (broadcast basis), using any properly calibrated, low pressure herbicide sprayer that will apply the spray uniformly.

Application with Liquid Fertilizer

Sonalan may be mixed with most liquid fertilizer materials. Combinations of Sonalan with solutions and suspension type fertilizers have provided weed and grass control equal to the same rates of Sonalan applied in water. Follow Sonalan label recommendations regarding rates per acre, crops, incorporation directions, special instructions, cautions and special precautions.

Individual state regulations relating to liquid fertilizer

8

mixing, registration, labeling and applications are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

Liquid Fertilizer Mixing Instructions

Emulsifiable concentrates, such as Sonalan, can be mixed with liquid fertilizers. In all cases, continuous agitation is required to prevent the Sonalan from rising to the surface as an oily layer. When necessary, (see Liquid Fertilizer Compatibility Test on page 10), a compatibility agent can be used to ensure that the Sonalan emulsifies properly (i.e., has a milky appearance rather than an oily layer). The use of compatibility agents is especially important when tank mixing emulsifiable concentrates (EC) with dry flowables, wettable powders (WP), flowables (F), liquids (L), aqueous suspensions (AS), or solutions (S) in liquid fertilizer. If the emulsion is not properly formed, and the EC rises to the surface of the fertilizer as an oil ("oils out"), the oil may combine with the wettable powder, flowable, or suspension to form oily curds (viscous phase) which are difficult to disperse.

Any one of the compatibility agents listed on page 10 is helpful in causing emulsifiable concentrates to form non-oiling mixtures with liquid fertilizers. These compatibility agents can be used at rates as low as one and one-half (1/2) to two (2) pints per ton of liquid fertilizer and should be mixed well with the fertilizer before adding the emulsifiable concentrate.

Read the label on the compatibility agent and follow the directions.

9

or liquid concentrat
(LC)
(DF)
or LC

1. Sponto 168D (Witco Chemicals Co., Chicago, IL)
2. Compat (Farm Chemicals, Inc., Aberdeen, NC)
3. Unite (Hopkins Ag Chemical, Madison, WI)
4. T-Mulz 734-2 (Thompson-Hayward Chemical Co., Kansas City, MO)
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
6. Amoco Spray Mate™ (Amoco Oil Co., Chicago, IL)
7. Kim-Link (Universal Coop, Minneapolis, MN)
8. Blendex™ (Helena Chemical Co., Cayce-West Columbia, SC)
9. Spray-Aide™ (Miller Chemical and Fertilizer Corp., Hanover, PA)

Each of the above is a phosphate ester type surfactant designed to be used with liquid fertilizers. They usually do not work well as compatibility agents in tank mixtures in water.

Testing for Tank Mix Compatibility in Liquid Fertilizers:

(DF) Emulsifiable concentrates alone or in tank mixture with dry flowables, wettable powders (WP), liquids (L), flowables (F), aqueous suspensions (AS), or solutions (S), may not combine properly with some fluid fertilizer materials. Small quantities should always be tested before full-scale mixing. This will determine whether a compatibility agent is needed, and which agent does the best job. The nine (9) agents listed above have been thoroughly tested. There are many other surfactants on the market which were not designed for use with liquid fertilizers.

10

Use the following test to select the correct agent for your mixture:

1. Put one (1) pint of the liquid fertilizer in a quart jar.
2. Add one (1) to four (4) teaspoonful(s) of the dry flowable, WP, L, F, or AS formulations (depending on the recommended rate per acre) to the liquid fertilizer. Close jar and agitate until dispersed evenly in the fertilizer. If the materials do not disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer.
3. After dispersing the materials (Step 2), add three (3) to four (4) teaspoonfuls of the Sonalan to the jar and shake well. Add solution herbicides to the mixture fast and agitate. Observe the jar for about 10 minutes. If the materials rise to the surface and form a thick layer (oily curds) which will not disperse when agitated, a compatibility agent is needed. If the mixture is easily dispersed to its original state with slight agitation, no agent is needed, but good agitation must be provided in the fertilizer spray tank.
4. If the need for a compatibility agent is shown in Step 3, using a clean quart jar, start at Step 1 above, add one-half (1/2) teaspoonful of the compatibility agent to the liquid fertilizer, mix well, then repeat Steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separating or oil rising to the surface for one-half (1/2) hour or longer. If slight separation does occur, two (2) to three (3) inversions of the jar should give a uniform remix. If

11

80000

oily curds form which will not disperse, more agent or another agent should be tried.

Use a clean jar for each test. The compatible mixture will have a uniform appearance and will be relatively easy to keep mixed with gentle agitation of the jar.

Application with Dry Bulk Fertilizer

Dry bulk fertilizer may be impregnated or coated with Sonalan. Application of dry bulk fertilizer impregnated with Sonalan has provided weed and grass control equal to the same rates of Sonalan applied in liquid carriers.

Follow Sonalan label recommendations regarding rates per acre, crops, incorporation directions, special instructions, cautions and special precautions.

Individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

Limitations: Apply a minimum of 200 pounds per acre of dry fertilizer impregnated with Sonalan at the recommended rate. Most dry fertilizers can be used for Sonalan impregnation. When coated ammonium nitrate and/or limestone are used alone, do not impregnate with Sonalan. These materials will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

Impregnation: Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Nozzles used to spray the Sonalan onto the fertilizer should be placed to provide uniform spray coverage.

12

For best results, SONALAN should be incorporated two times when applied impregnated on dry bulk fertilizers. Follow other SONALAN label recommendations for soil incorporation.

Add water to the Sonalan to give a total volume of at least six (6) pints per ton of fertilizer.

Sonalan—Preplant Incorporated Application

Weeds Controlled

Sonalan applied preplant soil incorporated will control the following weeds:

Grasses:

Annual bluegrass	<i>Poa annua</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Crabgrass	<i>Digitaria</i> spp.
(Large crabgrass)	
(Smooth crabgrass)	
Foxtail	<i>Setaria</i> spp.
(Giant foxtail)	
(Green foxtail)	
(Foxtail millet)	
(Pigeongrass)	
(Yellow foxtail)	
Goosegrass	<i>Eleusine indica</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Oat, wild ¹	<i>Avena fatua</i>
Panicum, fall	<i>Panicum dichotomiflorum</i>
Panicum Texas	<i>Panicum texanum</i>
(Buffalograss)	
(Colorado grass)	

¹Sonalan will provide wild oat control except those germinating below the Sonalan treated zone.

13

Sandbur, Field
Cenchrus incertus

Ryegrass, Italian
(Annual ryegrass)

Shattercane
(Wild cane)

Signalgrass, broadleaf
(Brachiaria)

Witchgrass

Broadleaf Weeds:

Buckwheat, wild

Carpetweed

Catchfly, conical

Chickweed, common

Fiddleneck tarweed

Groundcherry² (annual)

(Lanceleaf
groundcherry)

(Wright's
groundcherry)

Henbit

Kochia

Lambsquarters, common

Nightshade² (annual)

(Black nightshade)

(Eastern black nightshade)³

(Hairy nightshade)

Pigweed

(Prostrate pigweed)

(Redroot pigweed)

Lolium multitorum

Sorghum bicolor

Brachiaria platyphylla

Panicum capillare

Polygonum convolvulus

Mollugo verticillata

Silene conica

Stellaria media

Amsinckia lycopsoides

Physalis lanceifolia

Physalis Wrightii

Lamium amplexicaule

Kochia scoparia

Chenopodium album

Solanum spp.

Amaranthus spp.

(Smooth pigweed)
(Tumble pigweed)

Purslane, common

Pusley, Florida

Rockourslane, redmaids

Thistle, Russian

Portulaca oleracea

Richardia scabra

Calandrinia caulescens

Salsola kali

Soil Preparation—General Directions

Sonalan should be mixed uniformly into the top two (2) to three (3) inches of soil.

Factors that influence uniform application and incorporation of Sonalan are:

Crop Residues or Existing Weeds: Ground cover, such as crop residues or existing weeds, can interfere with the incorporation of Sonalan into the soil. A manageable level of such ground cover will allow the Sonalan to be uniformly mixed into the top two (2) to three (3) inches of soil. If the level of the ground cover is such that this cannot be done, the soil must be tilled prior to the application of Sonalan.

Roughness: The soil surface should be smooth enough so that you can operate a sprayer and incorporation equipment efficiently and at speeds which ensure a uniform application and incorporation of Sonalan.

General Soil Conditions: To assure uniform incorporation of Sonalan, soil moisture conditions should be such that large clods can be broken up during the incorporation process.

¹ See page 34 for special instructions for control in dry bean
² See page 18 for special instructions for partial control in soybean

100001

Soil Mixing Directions

Use incorporation equipment that thoroughly and uniformly mixes Sonalan into the top two (2) to three (3) inches of the seedbed, or erratic weed control and/or crop injury may result.

Incorporation Before Planting

Apply Sonalan up to three (3) weeks prior to planting. Sonalan should be thoroughly and uniformly mixed into the top two (2) to three (3) inches of the seedbed within two (2) days after application.

Incorporation In Bedded Culture

Application prior to bedding: Apply Sonalan and mix thoroughly into the top two (2) to three (3) inches of soil. The bedding operation provides additional mixing. Do not expose untreated soil during post-bedding operations.*

Application after bedding: Knock off beds to planting height before applying Sonalan. Apply Sonalan and mix thoroughly with equipment that will conform to the bed shape. Do not leave untreated soil exposed.*

*Avoid removal of treated soil from the seedbed before or during the planting operation. This would expose untreated soil, allowing weeds to germinate in the drill row.

Cultivation after Planting

Soil treated with Sonalan may be shallowly cultivated without reducing the weed control activity of Sonalan. Do not cultivate deeper than the treated soil since this may bring untreated soil to the surface, and poor weed

control may result.

Soil Texture Guide

The amount of Sonalan applied will vary with the soil texture and organic matter. A fine textured soil will require more Sonalan per acre than a coarse soil. Choose the proper rate based on the following soil texture group and specific crop recommendations. Do not exceed recommended rates.

Soil Texture Group	Soil Classification
Coarse soils: (Light)	Sand, loamy sand, sandy loam
Medium soils:	Loam, silty clay loam*, silt loam, silt, sandy clay loam*
Fine soils: (Heavy)	Clay, clay loam, silty clay loam*, silty clay, sandy clay, sandy clay loam*

* Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominately sand or silt, they are usually classified as medium textured soils. If they are predominately clay, they are usually classified as fine textured soils.

These recommendations are given as the broadcast rates of Sonalan per acre. Where a rate range is shown, use the lower rate for coarser textured soils or soils with lower organic matter. Use the higher rate, where a rate range is shown, on soils containing more than five percent (5%) organic matter. Where soil texture is variable within the same field, use the higher

1/5/89

recommended Sonalan rate for the coarser textured soil. Sonalan is not recommended for use on soils containing more than 10% organic matter.

Crop Recommendations

Soybean—Sonalan Alone

General weed control—except groundcherry and nightshade:

Sonalan should be applied as a preplant incorporated treatment. Follow recommended soil preparation, application, and incorporation procedures for Sonalan.

For broader spectrum weed control, Sonalan may be used in combination with Amiben, Basagran, Blazer, Dual, Lasso, Lexone, Lorox, Sencor and Vernam. Read the combination product label for directions, cautions, and limitations prior to use.

Broadcast Rates per Acre

Soil Texture	Sonalan (pints)
Coarse	1½-2
Medium	2-2½
Fine	2½-3

Eastern Black Nightshade—Partial Control:
Sonalan should be applied as a preplant incorporated treatment for partial control of nightshade in medium and fine textured soils. Follow recommended soil preparation and application procedures for Sonalan.

18

Two incorporation passes are required for partial control of eastern black nightshade. For broader spectrum weed control, Sonalan may be used in combination with Amiben, Basagran, Blazer, Dual, Lasso, Lexone, Lorox, Sencor and Vernam. Read the combination product label for directions, cautions and limitations prior to use.

Broadcast Rates per Acre

Soil Texture	Sonalan (pints)
Medium	3
Fine	3½

Precaution: Soybeans should be planted no more than two (2) inches deep after early season adverse weather conditions have passed, especially when using higher rate programs. Excessively deep planting or cool, wet weather early in the growth cycle causes additional stress to the soybean plant. These factors may result in reduced stands, delayed maturity and reduced yields.

Soybean—Sonalan/Amiben® Tank Mix or Overlay

Sonalan/Amiben should be applied as a preplant incorporated tank mix or Sonalan preplant incorporated followed by an Amiben overlay. The Sonalan/Amiben combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

Black nightshade	Velveteal
Common ragweed	Wild mustard
Pennsylvania smartweed	

19

Bo...

followed by a Lasso overlay. The Sonalan/Lasso combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

Black nightshade*	Red rice*
Florida pusley	Witchgrass
Galinsoga	Yellow nutsedge*
Hairy nightshade*	

Additional weeds partially controlled by this combination include:

Common ragweed	Smartweed
Florida beggarweed	Spiny sida (teaweed)

Sonalan/Lasso tank mix: Follow recommended soil preparation recommendations for Sonalan. Apply Sonalan/Lasso in a minimum of 15 gallons of water or liquid fertilizer per acre and incorporate thoroughly into the top two (2) inches of soil. Apply the tank mix up to seven (7) days prior to planting.

Sonalan preplant incorporated followed by Lasso overlay: Apply and incorporate Sonalan according to recommended soil preparation application and incorporation procedures.

*See Chart 1 for the rate tables for additional Lasso directions

*Use a minimum of one and one-half (1½) quarts of Lasso to control these weeds

*Use three (3) quarts of Lasso per acre applied alone or on medium and fine texture soils. This combination preplant incorporated only for control of these weeds

Sonalan/Lasso Tank Mix Preplant Incorporated

Broadcast Rates per Acre

Soil Texture	Sonalan		Lasso or Lasso Micro-Tech
	General Weed Control	Partial Control of Eastern Black Nightshade	
Coarse	(pints) 1½-2	(pints) N/A	(quarts) 2½
Medium	1½-2½	3*	3-3½
Fine	2½-3	3½*	3½-4

*Two incorporation passes are required for partial control of eastern black nightshade.

Sonalan Preplant Incorporated Followed by Lasso Overlay

Broadcast Rates per Acre

Soil Texture	Sonalan		Lasso or Lasso Micro-Tech	
	General Weed Control	Partial Control of Eastern Black Nightshade	Less than 3% O.M.	3% O.M. or greater
Coarse	(pints) 1½-2	(pints) N/A	(quarts) 2	(quarts) 2
Medium	1½-2½	3*	2½	2½-3
Fine	2½-3	3½*	3	3-4

*Two incorporation passes are required for partial control of eastern black nightshade.

Read the Lasso label for additional weeds controlled, directions, cautions and limitations prior to use.

Soybean—Sonalan/Lexone® or Sonalan/Sencor® Tank Mix or Overlay

Sonalan plus Lexone or Sencor should be applied as a preplant incorporated tank mix or Sonalan preplant incorporated followed by a Lexone or Sencor overlay. Do not allow Sonalan or Sonalan/Sencor tank mix to remain in the tank overnight. The Sonalan/Lexone or Sonalan/Sencor combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

Common ragweed	Prickly sida
Hemp sesbania	Velvetleaf
Jimsonweed	Venice mallow
Pennsylvania smartweed	Wild mustard

Control of cocklebur, morningglory, and giant ragweed may be erratic, ranging from poor to excellent depending upon soil temperature, time of weed germination, depth of weed seed in the soil and the amount and timing of soil moisture. Control may be improved with timely cultivation.

Follow recommended soil preparation, application, and incorporation directions for Sonalan.

Broadcast Rates per Acre

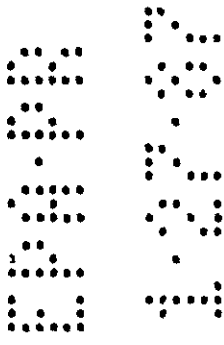
Soil Texture	Sonalan		Lexone or Sencor	
	General Weed Control	Partial Control Eastern Black Nightshade	Lexone 4L or Sencor 4	Lexone Dry Flowable or Sencor Dry Flowable
	(pints)	(pints)	(pints)	(pounds)
Coarse	1½-2	N/A	½**	½**
Medium	1¾-2½	3*	¾	¾
Fine	2¼-3	3½*	1	¾

*Two incorporation passes are required for partial control of eastern black nightshade.

**Do not use Lexone/Sencor on coarse soils with less than one percent (1%) organic matter.

Additional Precaution: For Lexone/Sencor tank mixes, do not plant any crop other than soybeans within four (4) months after treatment. Over application, uneven application, or improper soil incorporation may result in crop injury, soil residue, or erratic weed control. Seedling disease, cold weather, deep planting, excessive moisture, soil pH over seven and one-half (7.5), high salt concentration or drought may weaken crop seedlings and increase possibility of damage from the Sonalan/Lexone or Sonalan/Sencor tank mix. Under these conditions, delayed crop development or reduced yields may result. Read the Lexone and Sencor labels for directions, cautions and limitations prior to use. Do not use the foliage from soybeans treated with Lexone or Sencor for feed or forage.

14-202



161****/EC**36/LABELS/US/****/230

Soybean—Sonalan/Lasso/Lexone or Sonalan/Lasso/Sencor Tank Mix
 Sonalan plus Lasso and Lexone or Sencor should be applied as a preplant incorporated tank mix treatment. Do not allow the Sonalan/Lasso/Lexone or Sencor tank mix to remain in the tank overnight.

Sonalan/Lasso/Lexone or Sencor controls those weeds listed for Sonalan alone for general weed control plus these additional weeds:

- | | |
|------------------------|------------------------------|
| Black nightshade* | Sesbania |
| Crowfootgrass | (Coffeebean) |
| Galinsoga | (Coffeeweed) |
| Hairy nightshade* | Sheepspurse |
| Jimsonweed | Spotted spurge |
| Mallow, Venice | Spurred anoda |
| Mustard, wild | Velvetleaf |
| Pennsylvania smartweed | Yellow nutsedge ^b |
| Red rice ^b | |

Additional weeds partially controlled by this combination include:
 Common ragweed Spiny sida (teaweed)
 Florida beggarweed

Follow recommended soil preparation recommendations for Sonalan. Apply the tank mixes in a minimum of 15 gallons of water or liquid fertilizer per acre. Set equipment to mix the soil no deeper than four inches. Apply the tank mix up to seven (7) days prior to planting.

* Use a minimum of two and one-half (2½) quarts of Lasso per acre to control these weeds

^b Use three (3) to four (4) quarts of Lasso per acre on medium and fine textured soils to control these weeds

Broadcast Rates per Acre

Sonalan		Lasso or Lasso Micro-Tech		Lexone or Sencor	
General Weed Control	Partial Control of Eastern Black Nightshade			Lexone 4L or Sencor 4	Lexone Dry Flowable or Sencor Dry Flowable
Soil Texture		(quarts)	(pints)	(pints)	(pounds)
Coarse		2½	NA	½**	½**
Medium		3-3½	3*	¾	¾
Fine		3½-4	3½*	1	¾

*Two incorporation passes are required for partial control of eastern black nightshade.

**Do not use Lexone or Sencor on coarse soils with less than one (1) percent organic matter.

Read the Lasso, Lexone or Sencor label for additional weeds controlled, directions, cautions and limitations prior to use.

150F29

Soybean—Sonalan/Dual/Lexone or Sonalan/Dual/Sencor Tank Mix

Sonalan plus Dual and Lexone or Sencor should be applied as a preplant incorporated tank mix treatment. Do not allow the Sonalan/Dual/Lexone or Sencor tank mix to remain in the tank overnight.

Sonalan/Dual/Lexone or Sencor controls those weeds listed for Sonalan alone for general weed control plus these additional weeds:

Black nightshade	Shepherdspurge
Crowfootgrass	Southwestern cupgrass
Galinsoga	Spotted spurge
Jimsonweed	Spurred anoda
Pennsylvania smartweed	Velvetleaf
Prairie cupgrass	Venice mallow
Red rice	Wild mustard
Sesbania	Yellow nutsedge
(Coffeebean)	
(Colleeweed)	

Additional weeds partially controlled by this combination include:

Hairy nightshade	Volunteer sorghum
Sandbur	

Follow recommended soil preparation recommendations for Sonalan. Apply the tank mixes in a minimum of 10 gallons of water or liquid fertilizer per acre. Mix the tank mix into the top two (2) inches of soil. Apply the tank mixes up to 14 days prior to planting.

28

Broadcast Rates per Acre

Use the recommended rates listed for Sonalan and Dual for the two-way combination; add the recommended rate of Lexone or Sencor for the Sonalan/Dual/Lexone or Sencor tank mix.

Soil Texture	Sonalan		Dual		Lexone or Sencor	
	General Weeds	Partial Control of Eastern Black Nightshade	Less than 3% O.M.	3% O.M. or Greater	Lexone 4L or Sencor 4	Dry Flowable
	(pints)	(pints)	(pints)	(pints)	(pints)	(pounds)
Coarse	1½-2	NA	1½-2	2	½**	½**
Medium	1½-2½	3*	2-2½	2-2½	¾	¾
Fine	2½-3	3½	2-2½	2½-3	1	¾

*Two incorporation passes are required for partial control of eastern black nightshade.

**Do not use Sencor or Lexone on coarse soils with less than one (1) percent organic matter.

Read the Dual, Lexone and Sencor labels for additional weeds controlled, directions, cautions and limitations prior to use.

29

1605

Soybean—Sonalan Preplant Incorporated Followed by Lorox® Overlay

Sonalan should be applied preplant incorporated followed by a Lorox overlay. The Sonalan/Lorox combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

- Common ragweed
- Florida beggarweed
- Smartweed

Follow recommended soil preparation, application, and incorporation procedures for Sonalan. When Lorox is applied as an overlay to Sonalan, apply Lorox as a preemergence application prior to crop and weed emergence. Read the Lorox label for directions, cautions and limitations prior to use.

Broadcast Rates per Acre

Soil Texture	Sonalan		Lorox L	
	General Weed Control	Partial Control of Eastern Black Nightshade	1/2 or 2% O.M	2 to 5% O.M **
	(pints)	(pints)	(pints)	(pints)
Coarse	1 1/4-2	N/A	1-1 1/2	1 1/2-3
Medium	1 1/4-2 1/2	3*	1 1/4-2 1/2	2 1/2-4
Fine	2 1/4-3	3 1/2*	1 1/2-2 1/2	2 1/2-5

*Two incorporation passes are required for partial control of eastern black nightshade

**Over 5% organic matter use 6 pints Lorox L.

Read the Lorox label for additional weeds controlled, directions, cautions and limitations prior to use.

Soybean—Sonalan/Vernam® Tank Mix

Sonalan plus Vernam should be applied as a preplant incorporated tank mix treatment.

Sonalan/Vernam effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

- Annual morningglory
- Purple nutsedge
- Sicklepod
- Velvetleaf
- Yellow nutsedge

Apply Sonalan/Vernam in at least 10 gallons per acre of water or liquid fertilizer. Follow recommended soil preparation procedures. Incorporate the tank mix immediately following application. Read the Vernam label for additional directions, cautions and limitations prior to use.

Broadcast Rates per Acre

Soil Texture	Sonalan		Vernam 7E
	General Weed Control	Partial Control of Eastern Black Nightshade	
	(pints)	(pints)	(pints)
Coarse	1 1/4-2	N/A	2 1/2
Medium	1 1/4-2 1/2	3*	3
Fine	2 1/4-3	3 1/2*	3

*Two incorporation passes are required for partial control of eastern black nightshade.

Read the Vernam label for additional weeds controlled, directions, cautions and limitations prior to use.

Soybean—Sonalan Preplant Incorporated Followed by Basagran® Postemergence Application

Sonalan should be applied preplant incorporated followed by a postemergence application of Basagran.

The Sonalan/Basagran combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

Cocklebur	Ragweed
Jimsonweed	Tropic croton
Prickly sida	Velvetleaf

Consult the Basagran label for specific weed growth stage directions to achieve best results.

Broadcast Rates per Acre

Soil Texture	Sonalan		Basagran**
	General Weed Control	Partial Control of Eastern Black Nightshade	
	(pints)	(pints)	(pints)
Coarse	1½-2	N/A	2
Medium	2-2½	3*	2
Fine	2½-3	3½*	2

*Two incorporation passes are required for partial control of eastern black nightshade.

** Apply Basagran as follows for optimum results:

Do not treat earlier than weed stage indicated on Basagran label. Add oil concentrate according to label use directions.

Read the Basagran label for additional weeds controlled, directions, cautions and limitations prior to use.

Soybean—Sonalan Preplant Incorporated Followed by Blazer® Postemergence Application (except California)

Sonalan should be applied preplant incorporated followed by a postemergence application of Blazer.

The Sonalan/Blazer combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

Balloonvine	Ragweed
Black nightshade	Smartweed
Jimsonweed	Tropic croton
Morningglory	Wooly croton

Broadcast Rates per Acre

Soil Texture	Sonalan		Blazer**
	General Weed Control	Partial Control of Eastern Black Nightshade	
	(pints)	(pints)	(pints)
Coarse	1½-2	N/A	2
Medium	2-2½	3*	2
Fine	2½-3	3½*	2

*Two incorporation passes are required for partial control of eastern black nightshade.

** Apply Blazer as follows for optimum results:

1. Apply when weeds are at 2-4 leaf stage and actively growing
2. Apply in a minimum of 20 GPA.

3. Use 40-60 PSI.
 4. Do not use during periods of dry weather when crop and weeds are under stress.
 5. Do not apply when temperature is below 70°F.
- Read the Blazer label for additional weeds controlled, directions, cautions and limitations prior to use.

Dry Bean—Sonalan Alone
(Does not include soybean)

Sonalan should be applied as a preplant incorporated treatment. Follow recommended soil preparation, application, and incorporation procedures for Sonalan.

General weed control—except groundcherry and nightshade:

Broadcast Rates per Acre

Soil Texture	Sonalan (pints)
Coarse	1½-2
Medium	2-2½
Fine	2½-3

For broader spectrum control, Sonalan may be used in combination with Amiben, Dual, Eptam or Lasso. Read the combination product label for directions, cautions and limitations prior to use.

Groundcherry and Nightshade control (annual)—dry bean:

Two incorporation passes are required for groundcherry and nightshade control.

Do not use these Sonalan rates for garden bean, green bean, snap bean, or string bean.

Broadcast Rates per Acre

Soil Texture	Sonalan (pints)
Coarse	3-3½
Medium	3½-4
Fine	4-4½

For broader spectrum control, Sonalan may be used in combination with Amiben, Dual, Eptam or Lasso. Read the combination product label for directions, cautions and limitations prior to use.

Dry Bean—Sonalan/Amiben® Tank Mix or Overlay

Sonalan/Amiben should be applied as a preplant incorporated tank mix or Sonalan preplant incorporated followed by an Amiben overlay.

The Sonalan/Amiben combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

- Black nightshade
- Common ragweed
- Pennsylvania smartweed
- Velveteal
- Wild mustard

Follow recommended soil preparation, application, and incorporation procedures for Sonalan.

Broadcast Rates per Acre

Soil Texture	Sonalan		Amiben**	
	General Weed Control	Nightshade and Groundcherry Control*	2S (quarts)	DS (pounds)
Coarse	1 1/4-2 (pints)	3-3 1/2 (pints)	4-6	2.4-3.6
Medium	1 1/4-2 1/2	3 1/2-4	4-6	2.4-3.6
Fine	2 1/4-3	4-4 1/2	4-6	2.4-3.6

*Two incorporation passes are required for groundcherry or nightshade control.

**Use the higher rate where a heavy population of smartweed, velvetleaf, ragweed, wild mustard, or black nightshade are expected. Read the Amiben label for directions, cautions and limitations prior to use.

Read the Amiben label for additional weeds controlled, directions, cautions and limitations prior to use.

Dry Bean—Sonalan/Dual® Tank Mix or Overlay

Sonalan/Dual should be applied as a preplant incorporated tank mix or Sonalan preplant incorporated followed by a Dual overlay. The Sonalan/Dual combination effectively controls the weeds listed for Sonalan alone for general weed control plus these additional weeds:

Black nightshade	Red rice
Galinsoga	Southwestern cupgrass
Prairie cupgrass	Yellow nutsedge

Additional weeds partially controlled by this combination include:

Hairy nightshade Volunteer sorghum
Sandbur

Follow recommended soil preparation procedures for Sonalan. Apply the tank mix in at least 10 gallons of water per acre up to 14 days prior to planting. Incorporate the tank mix within two (2) days after application in the top two (2) inches of soil. When Dual is applied as an overlay to Sonalan, apply Dual after planting (behind the planter) prior to crop and weed emergence.

Broadcast Rates per Acre

Soil Texture	Sonalan		Dual 8E	
	General Weed Control	Nightshade and Groundcherry Control*	Less than 3% O.M.	3% O.M. or greater
Coarse	1 1/4-2 (pints)	3-3 1/2 (pints)	1 1/2-2 (pints)	2 (pints)
Medium	1 1/4-2 1/2	3 1/2-4	2-2 1/2	2-2 1/2
Fine	2 1/4-3	4-4 1/2	2-2 1/2	2 1/2-3

*Two incorporation passes are required for groundcherry or nightshade control.

Read the Dual label for additional weeds controlled, directions, cautions and limitations prior to use.

Dry Bean—Sonalan/Eptam®, Sonalan/EPTC Tank Mixes

Sonalan plus Eptam or Sonalan plus EPTC should be applied as a preplant incorporated tank mix treatment. The Sonalan/Eptam or other Sonalan/EPTC tank

25:52

mixes effectively control the weeds listed for Sonalan alone for general weed control plus these additional weeds:

Nightshade (black and hairy)
Nutsedge (purple and yellow)

Follow recommended soil preparation and application directions for Sonalan. Incorporate the tank mix immediately after application.

Broadcast Rates per Acre

Soil Texture	Sonalan		Eptam 7E or other EPTC 7E formulations
	General Weed Control	Nightshade and Groundcherry Control*	
	(pints)	(pints)	(pints)
Coarse	1 1/4-2	3-3 1/2	3 1/2
Medium	1 1/4-2 1/2	3 1/2-4	3 1/2
Fine	2 1/4-3	4-4 1/4	3 1/2

*Two incorporation passes are required for groundcherry or nightshade control.

Read the Eptam or other EPTC labels for additional weeds controlled, directions, cautions and limitations prior to use.

Dry Bean—Sonalan/Lasso® Tank Mix—

(For use only west of the Mississippi River, except in Kern County, California)

Sonalan/Lasso should be applied as a preplant incorporated tank mix. The Sonalan/Lasso combination effectively controls the weeds listed for Sonalan

alone for general weed control plus these additional weeds:

Black nightshade* Red rice*
Florida pusley —Witchgrass-
Galinsoga Yellow nutsedge*
Hairy nightshade*

Additional weeds partially controlled by this combination include:

Common ragweed Smartweed
Florida beggarweed Spiny sida (teaweed)

Sonalan/Lasso tank mix: Follow recommended soil preparation recommendations for Sonalan. Apply Sonalan/Lasso in a minimum of 15 gallons of water per acre and incorporate thoroughly into the top two (2) inches of soil. Apply the tank mix up to seven (7) days prior to planting.

Broadcast Rates per Acre

Soil Texture	Sonalan		Lasso or Lasso Micro-Tech
	General Weed Control	Nightshade and Groundcherry Control*	
	(pints)	(pints)	(quarts)
Coarse	1 1/4-2	3-3 1/2	2 1/2-3
Medium	1 1/4-2 1/2	3 1/2-4	2 1/2-3
Fine	2 1/4-3	4-4 1/2	2 1/2-3

*Two incorporation passes are required for groundcherry or nightshade control.

*Check beneath the rate table for additional Lasso directions

*Use a minimum of two and one half (2 1/2) quarts of Lasso on coarse soils and three (3) quarts on medium and fine soils to control these weeds

21-1-37

weed control plus these additional weeds:

Black nightshade Velvetleaf
Common ragweed Wild mustard
Pennsylvania smartweed

Broadcast Rates per Acre

Soil Texture	Sonalan	Amlben	
	General Weed Control	Amlben 2S (quarts)	Amlben DS (pounds)
Coarse	1½ - 2 (pints)	4 - 6*	2.4 - 3.6*
Medium	1¾ - 2½	4 - 6	2.4 - 3.6
Fine	2½ - 3	4 - 6	2.4 - 3.6

*Use the higher rate where heavy populations of black nightshade, ragweed, smartweed, velvetleaf or wild mustard are expected.

Precaution: Do not graze or forage crop grown in treated soil or cut for hay or silage.

Read the Amlben label for additional weeds controlled, directions, cautions and limitations prior to use.

Sunflower—Sonalan/Eplam® or Sonalan/EPTC Tank Mix for Use Only in North Dakota, South Dakota and Minnesota.

Sonalan/Eplam or Sonalan/EPTC should be applied as a preplant incorporated tank mix treatment.

The Sonalan/Eplam tank mix effectively controls the weeds listed for Sonalan alone for general weed

42

control plus these additional weeds:

Annual Weeds Perennial Weeds
Annual morningglory Bermudagrass
Bermudagrass (seedling) Purple nutsedge
Black nightshade Yellow nutsedge

Corn spurry
Fiddleneck
Goosefoot nettleleaf
Hairy nightshade
Rescuegrass
Ryegrass (Italian)
Shepherdspurse
Tumble pigweed
Volunteer grains (barley, oat, wheat)

Follow recommended soil preparation directions for Sonalan. Apply the tank mix in at least 10 gallons of water or liquid fertilizer per acre. Apply and immediately incorporate the tank mix prior to planting in the spring.

Broadcast Rates per Acre

Soil Texture	Sonalan General Weed Control	Eplam 7E or other EPTC 7E formulations
Coarse	1½-2 (pints)	2½-3½ (pints)
Medium	1¾-2½	2½-3½
Fine	2½-3	2½-3½

Precaution: Do not graze or forage crop grown in treated soil or cut for hay or silage.

Read the Eplam or other EPTC labels for additional

43

weeds controlled, directions, cautions and limitations prior to use.

Sonalan Performance Guarantee

A Limited Warranty of Sonalan Weed and Grass Control

Elanco Products Company warrants that Sonalan will ~~control~~ the weeds and grasses as indicated on its current label when used according to label directions and subject to the following limitations:

1. Purchaser must notify Elanco promptly if a lack of ~~satisfactory~~ control occurs. Notice must be given within ~~seventy~~ days after the first planting or after application of Sonalan to the treated crop, which ever occurs later.
2. An Elanco representative must be satisfied that Purchaser used Sonalan according to the label directions, and ~~must visually observe unsatisfactory control of weeds in the field.~~
3. The Purchaser must provide an Elanco representative with an Invoice or other satisfactory record which shows the price and quantity of Sonalan purchased.
4. Elanco's liability will be limited to a refund of the purchase price of the Sonalan applied to the acreage on which weed control was not satisfactory or, at the option of the Purchaser, a refund of an equivalent amount of Sonalan.
5. Void outside the U.S.A.

44

Disclaimer of Warranties

The warranty printed above is the only warranty applicable to this product. All other warranties, express or implied, including but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are disclaimed.

Limitation of Damages

Elanco's liability, whether in contract, warranty, tort, negligence, strict liability or otherwise shall not exceed the return of the amount of the purchase price of the Sonalan and under no circumstances shall Elanco be liable for special, indirect or consequential damages.

Inherent Risks of Use

Failure to carefully follow the directions for use of Sonalan, as well as other factors such as seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, sodic soils or drought may result in unsatisfactory weed control or crop injury. Reduced yields may result under these conditions.

45

provide commercially acceptable control of

commercially acceptable forty-five

commercially acceptable control was not obtained.

INSERT 4

~~Agriben®-chloramben, Union Carbide Agricultural Products Company, Inc.
Bisatran®-benflazon, BASF Wyandotte Corporation
Blaser®-acifluorfen, Rohm and Haas Company
Dual®-metolachlor, Ciba Geigy Corporation
Eptam®-EPIC, Stauffer Chemical Company
Lasso®-atrichlor, Monsanto Company
Lasso® Micro-Tech™-atrichlor, Monsanto Company
Lesone®-metolachlor, E. I. du Pont de Nemours and Company
Loro®-linuron, E. I. du Pont de Nemours and Company
Sencor®-metribuzin, Bayer, GmbH
Vernam®-vernolate, Stauffer Chemical Company~~

be for 20

the skin. Avoid breathing spray mist and vapors. This product may cause an allergic skin reaction. Use protective clothing such as coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENTS OF PRACTICAL TREATMENT:

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See a physician or an ophthalmologist immediately.

IF SWALLOWED: Call a physician or Poison Control Center. This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Drink promptly, a large quantity of milk, egg white, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation develops.

IF INHALED: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and call a physician.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. If swallowed and the patient is conscious, immediately administer activated charcoal (6-8 heaping teaspoonfuls) with water.

INSERT 2:

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

INSERT 3:

Replanting

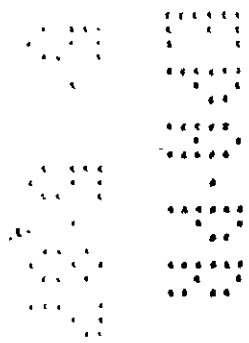
If replanting is required, replant only crops listed on the SONALAN label.

Sugarbeets or Red Beets

Do not plant sugarbeets or red beets within thirteen (13) months following an application of three (3) pints or more per acre of SONALAN. Where less than three (3) pints per acre of SONALAN have been applied, sugarbeets or red beets may be planted eight (8) months after an application of SONALAN, if the SONALAN treated soil is moldboard plowed to a depth of at least twelve (12) inches prior to planting.

Spinach or Oats

In California and Arizona, do not plant spinach or oats within eight (8) months following an application of three (3) pints per acre or more of SONALAN.



28007

INSERT 4:

Amiben® (chloramben, Union Carbide)
Basagran® (bentazon, BASF)
Blazer® (acifluorfen, Rohm and Haas)
Dual® (metolachlor, Ciba-Geigy)
Eptam® (EPTC, Stauffer)
Lasso® Micro-Tech™ (alachlor, Monsanto)
Lexone® (metribuzin, DuPont)
Lorox® (linuron, DuPont)
Sencor® (metribuzin, Bayer GmbH)
Vernam® (vernolate, Stauffer)



INSERT 5:

Bulk/Mini-bulk Tank Handling: Tanks that have been used for phenoxy-type herbicides should not be used for SONALAN. To clean, triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

SONALAN