pm 25 .3125-402

Base Pre-Reg. (7370)

U.S. LARI

<u>Reason to Issue</u>: To revise directions for impregnating dry bulk fertilizer with SENCOR.

Date of Draft: 9/24/91 (Pre-Reg)(H)

EPA Reg. No. 3125-402

492-7370.YLD

SENCOR® SOLUPAK™ 75% Dry Flowable Herbicide

ACTIVE INGREDIENT:

4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one

75%

INERT INGREDIENTS:

25% 100%

AMENDMENT TO CURRENTLY REGISTERED LABELING

REVISE TO READ AS FOLLOWS:

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ACCEPTED

10 12.

Under the Federal Insecticide, standarde, and Rodenticide Act. and a made, for the pesticide ingistered under 25-403

COMMERCIAL IMPREGNATION AND APPLICATION OF SENCOR SOLUPAK ON DRY BULK FERTILIZER

Dry bulk fertilizer may be impregnated or coated with SENCOR SOLUPAK for application to established alfalfa and to soybeans. All recommendations, cautions, and special precautions on this label must be followed along with state regulations relating to dry bulk fertilizer blending, impregnating and labeling.

<u>Impregnation</u>: To impregnate, use a system consisting of a belt, conveyor, or closed drum which is used for dry bulk fertilizer blending. Any commonly used fertilizer can be impregnated with SENCOR except ammonium nitrate, or fertilizers containing ammonium nitrate, potassium nitrate, or sodium nitrate. Do not use on powder limestone.

Apply using a minimum of 200 pounds dry bulk fertilizer per acre and a maximum of 450 pounds per acre. To impregnate or coat the dry bulk fertilizer, mix SENCOR SOLUPAK with sufficient water to form a sprayable slurry. The delivery nozzles must be directed to deliver a fine spray toward the fertilizer for thorough coverage while avoiding spray contact with mixing equipment. Uniform impregnation of SENCOR to dry bulk fertilizer will vary and if the adsorptivity is not adequate, an adsorptive powder may be added to produce a dry, free-flowing mixture. Micro-Cel E (Johns-Manville Product Corporation) is the recommended absorbent powder. When another herbicide is used with SENCOR, mix and impregnate immediately.

Apply immediately after impregnation unless experience has shown that impregnated fertilizer can be stored without becoming lumpy and difficult to spread.

<u>Rates</u>: Select the recommended rate of SENCOR SOLUPAK per acre from the appropriate section this label and refer to the formula below to determine the amount of SENCOR which is to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be distributed on one acre.

Pounds SENCOR SOLUPAK
Per Acre

Z000

Ibs. Fertilizer
Per Acre

Pounds SENCOR SOLUPAK Per
Ton of Fertilizer
Per Acre

<u>APPLICATION</u>: Uniform application is essential for satisfactory weed control. Accurate calibration of fertilizer application equipment is essential for uniform distribution to the soil surface. The recommended method of application is to apply 1/2 the recommended rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

If fertilizer materials are excessively dusty, use diesel oil or other suitable additive to reduce dust prior to impregnation as dusty fertilizer will result in poor distribution during application. Crop injury and/or poor weed control may occur where the impregnated fertilizer is not uniformly applied.

INCORPORATION AND COMBINATION USES: When SENCOR SOLUPAK is to be used in combination with another herbicide, follow directions on this label for combinations, rates, crops, incorporation, and special precautions.

U.S. LABEL

Reason to Issue: To revise instructions

for use on alfalfa and sainfoin:

All Show tank mix with Gramovone Extra

 Show tank mix with Gramoxone Extra instead of Gramoxone Super;

(2) Change reference to Ortho X-77 Spreader to "a non-ionic spreader;

(3) Clarify rate recommended for loamy sand soils;

(4) Add precaution against excessive irrigation immediately after application;

(5) Delete special low rate recommendation for Idano, Oregon and Washington 8/23/91 Draft: Revise according to internal comments.

12/10/91 Oraft: To correct application rates of Gramoxone Extra.

Under the Federal Insecticide.
Fungicide, and Rodensicide Act, as amended, for the resticide registered under EPA Reg. No. 3/25-402

EPA Reg. No. 3125-402

SENCOR® SOLUPAK™ 75% Dry Flowable Herbicide

ACTIVE INGREDIENT:

4-Amino-6-(1,1-dimethylethyl)-3-

(methylthio)-1,2,4-triazin-5($4\underline{H}$)-one 75%

100%

AMENDMENT TO CURRENTLY REGISTERED LABELING

REVISE TO READ AS FOLLOWS:

ALFALFA AND SAINFOIN

SENCOR herbicide is recommended for use on alfalfa and sainfoin in the following areas:

- 1. Alfalfa and sainfoin (Including mixed stands with grasses) (all areas except California)
- 2. Alfalfa and sainfoin (Including mixed stands with grasses) (California only)
- Alfalfa Tank Mix Combination with Gramoxone (Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, and the following California counties: Del Norte, Lassen, Modoc, Nevada, Plumes, Shanta, Sierra, and Siskiyou).
- 4. Alfalfa Post Dormant Application of SENCOR Impregnated on Dry Fertilizer Only.
- 5. Alfalfa Non-Dormanc, Non-Winter Hardy varieties (Arizona only)

SENCOR SOLLPAK is recommended for use in aerial or ground spray equipment as a broadcast surface application to established crops of alfalfa and sainfoin for the contol of certaing grass and broadleaf weeds.

APPLICATION: Refer to "General Information" in the front of this label for detailed information on the application of SENCOR. For information on applying SENCOR SOLUPAK in fluid or on dry fertilizer refer to the "Application Of SENCOR SOLUPAK In Fluid Fertilizers" or "Commercial Impregnation And Application Of SENCOR SOLUPAK On Dry Bulk Fertilizer" under the "General Information" section in the front of this label.

SPECIAL PRECAUTIONS:

Use SENCOR SOLUPAK only on established alfalfa and sainfoin. Do not apply SENCOR SOLUPAK after growth begins in the spring or before growth ceases in the fall, except as specified on this label.

Do not graze or harvest within 28 days after application.

For best weed control, apply SENCOR SOLUPAK when weeds are less than 2 inches tall or $\{$ before weed fc^1 iage is 2 inches in diameter.

Reduced weed control may occur when extended dry conditions follow application of SENCOR SOLUPAK.

Crop injury may occur when:

- 1. Crop is under stress conditions such as diseases, insect infestations, poorly drained soils, drought or winter injury at time of application;
- 2. Crop is treated within 12 months after seeding;
- There is excessive irrigation or rainfall immediately after application. Do not apply more than 1/2 inch of water in the first irrigation after SENCOR DF is applied.

ALFALFA and SAINFOIN (All Areas Except California)

		RECOMMENDED BROADCAST APPLICATIONS
CROP	SENCOR SOLUPA Pounds/Acre	
Alfalfa and Sainfoin (Except California)	1/3 to 1 1/3	Select the proper dosage according to weeds known to be present in field to be treated. On loamy sand soils in Oregon and Washington, do not apply more than 2/3 pound of SENCOR SOLUPAK per acre.

FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES:

Rates of 2/3 to 1 pound of SENCOR SOLUPAK per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa. Higher rates will severely reduce forage grass stands.

SENCOR SOLUPAK should not be used on sand soils. In areas West of the Rocky Mountains, avoid using SENCOR SOLUPAK on soils with calcareous surface area, high levels of lime or sodium, or a pH greater than 8.2.

Weeds Controlled:

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1/3 to 1/2 pound SENCOR SOLUPAK/acre
Chickweed, Common
(Stellaria media)

1/2 to 2/3 pound SENCOR SOLUPAK/acre

Cheat (Bromus secalinus)
Deadnettle, Purple (Lamium purpureum)
Downy brome (Bromus tectorum)
Japanese brome (Bromus japonicus)
Pennycress (Thlaspi arvense)
Rescuegrass (Bromus catharcicus)
Shepherdspurse (Capsella bursa - pastoris)

ALFALFA AND SAINFOIN (Continued)

2/3 to 1 1/3 pounds SENCOR SOLUPAK/acre

Broadleaves

Fleabane, Rough (Erigeron <u>striqosus</u>) Flixweed (Descurainia sophia) Henbit (Lamium <u>amplexicaule</u>) Kochia (Kochia scoparia) Lambsquarters, Common (Chenopodium <u>album</u>) Marestail (Horseweed) (Hippuris <u>vulgaris</u>) Meadow Salsify (Tragopogon pratensis) Mustard, Blue (<u>Chorispora</u> <u>tenella</u>)
Mustard, Jim Hill (tumble) (Sisymbrium <u>altissimum</u>) Mustard, Tansy (Descurainia pinnata)

Pigweed, Redroot
(Amaranthus retroflexus)
Prickly Lettuce
(Lactuca serriola)
White Cockle
(Melandrium album)
Wild Buckwheat
(Polygonum convolvulus)
Yellow Rocket
(Barbarea vulgaris)

<u>Grasses</u>

Foxtail, Green
(Setaria viridis)
Little Barley
(Hordeum pusillum)
Smooth Brome
(Bromus inermis)
Wild Oats
(Avena fatua)

1 1/3 pounds SENCOR SOLUPAK/Acre

Broadleaves

Pepperweed

Chickweed, Mousear
(Cerastium vulgatum)
Dandelion
(Taraxacum officinale)
Ragweed, Common
(Ambrosia artemisijfulia)

(Lepidium virginicum)

<u>Grasses</u>

Barnyardgrass
(Echinochloa rus-galli)
Bluegrass
(Poa annua)
Foxtail Barley
(Hordeum jubatum)

<u>Weeds Partially Controlled</u>: At the rate of 1 1/3 pounds/acre SENCOR SOLUPAK may be used to reduce the competition from curly dock (<u>Rumex crispus</u>). At 2/3 to 1 1/3 pounds/acre, SENCOR SOLUFAK may be used to reduce the competition of German Moss or knawel (<u>Scleanthus annus</u>).

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ALFALFA

SENCOR plus Gramoxone Tank Mix

Colorado, Idaho, Kansas, Montana, Nevada, Oregon, Utah, Washington, Wyoming and the following California counties:

Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, and Siskiyou.

APPLICATION: SENCOR SOLUPAK plus Gramoxone Extra herbicide tank mix application is recommended for use, during the dormant season, in aerial or ground spray equipment as a broadcast surface application to established alfalfa for the control of certain grass and broadleaf weeds. Do not apply SENCOR/Gramoxone tank mix to growth that is more than 2 inches tall. Apply once per season. Do not apply following cuttings during growing season. Use a minimum of 10 gallons of water per acre with aerial spray equipment and a minimum of 20 gallons of water per acre with ground spray equipment. Add a non-ionic spreader at label rates to the spray solution.

<u>WEEDS CONTROLLED</u>: SENCOR SOLUPAK plus Gramoxone Extra (1-1/5 to 1-3/5 pints/acre) tank mix application will control established weeds. Gramoxone controls weeds by contact activity.

1/3 to 1/2 pound of SENCOR SOLUPAK per acre

Common chickweed

1/2 to 1 pound of SENCOR SOLUPAK
per acre

Bluegrass Henbit Cheat Rescuegrass

Downy brome Japanese brome Shepherdspurse Field pennycress

Use SENCOR SOLUPAK at 2/3 to 1 pound/acre for control of the following weeds:

Ryegrass
Sow thistle
Groundsel
Smooth brome
Wild oats
Blue mustard
Tansy mustard
Flixweed

Kochia
Meadow salsify
Pepperweed
Jim Hill mustard
Green foxtail
Yellow rocket
White cockle
Wild buckwheat

Prickly lettuce Little barley Redroot pigweed Common lambsquarters Marestail (Horseweed) Rough fleabane

RECOMMENDED APPLICATIONS

BEST AVAILABLE COPY

REMARK\$ DOSAGE/Acre Apply specified dosages of SENCOR and Gramoxone in at least 10 gallons of water per acre with aerial equipment or at least 20 gallons of water per acre with ground equipment. Co not apply this tank mix to alfalfa growth if more than 2 inches tall. SENCOR SOLUPAK 1/3 to 1 pound For best weed control, apply when broadleaf weeds and grasses are 1-6 inches tall and are actively growing. Care should be plus taken to avoid overlaps. Do not apply more than 2/3 pound of SENCOR SOLUPAK per acre on loamy sand soils. Reduced weed control may occur when extended dry conditions follow, applica-Gramoxone Extra tion of SENCOR. Crop injury may occur if alfalfa'is'under 1-1/5 to 1-3/5 pints stress conditions such as diseases, insect infestations, drought or winter injury or if SENCOR is applied to alfalfa earlier than 12 months after seeding.

FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES: Rates of 2/3 to 1 pound of SENCOR SOLUPAK per acre will provide partial reduction of forage grass stands. These rates may be used reduce forage grass stands to prevent crowding out of alfalfa.

Do not graze or harvest within 42 days after application.

In are west of the Rockies, avoid the use of SENCOR on soils with calcareous surface, soils h high levels of lime or sodium, and with a pH greater than 8.2.

Do not oly when weather conditions favor spray drift. Aeria' application should not be made when wind speed is greater than 10 mph.

Do not use on sand soil.

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Refer to the Gramoxone Extra label for additional directions, weed species controlled and precautions.

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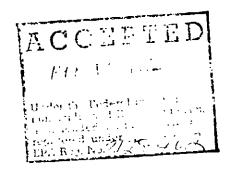
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Base Pre-Reg. (7424)

U.S. LABEL

Reason to Issue: To revise instructions Date of Draft: 12/10/91 (Pre-Reg)(H)
for use on alfalfa and sainfoin: Supersedes Pre-Reg. Draft Dated: 8/23/91

- Show tank mix with Gramoxone Extra instead of Gramoxone Super;
- (2) Change reference to Ortho X-77 Spreader to "a non-ionic spreader;
- (3) Clarify rate recommended for loamy sand soils;
- (4) Add precaution against excessive irrigation immediately after application;
- (5) Delete special low rate recommendation for Idaho, Oregon and Washington 8/23/91 Draft: Revise according to internal comments. 12/10/91 Draft: To correct application rates of Gramoxone Extra.



EPA Reg. No. 3125-402

SENCOR® SOLUPAK™ 75% Dry Flowable Herbicide

ACTIVE INGREDIENT:

4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one 75%

AMENDMENT TO CURRENTLY REGISTERED LABELING

REVISE TO READ AS FOLLOWS:

ALFALFA AND SAINFOIN

SENCOR herbicide is recommended for use on alfalfa and sainfoin in the following areas:

- 1. Alfalfa and sainfoin (Including mixed stands with grasses) (all areas except California)
- 2. Alfalfa and sainfoin (Including mixed stands with grasses) (California only)
- 3. Alfalfa Tank Mix Combination with Gramoxone (Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, and the following California counties: Del Norte, Lassen, Modoc, Nevada, Plumes, Shasta, Sierra, and Siskiyou).
- 4. Alfalfa Post Dormant Application of SENCOR Impregnated on Dry Fertilizer Only.
- 5. Alfalfa Non-Dormant, Non-Winter Hardy varieties (Arizona only)

SENCOR SOLUPAK is recommended for use in aerial or ground spray equipment as a broadcast surface application to established crops of alfalfa and sainfoin for the contol of certaing grass and broadleaf weeds.

<u>APPLICATION</u>: Refer to "General Information" in the front of this label for detailed information on the application of SENCOR. For information on applying SENCOR SOLUPAK in fluid or on dry fertilizer refer to the "Application Of SENCOR SOLUPAK In Fluid Fertilizers" or "Commercial Impregnation And Application Of SENCOR SOLUPAK On Dry Bulk Fertilizer" under the "General Information" section in the front of this label.

SPECIAL_PRECAUTIONS:

Use SENCOR SOLUPAK only on established alfalfa and sainfoin. Do not apply SENCOR SOLUPAK after growth begins in the spring or before growth ceases in the fall, except as specified on this label.

Do not graze or harvest within 28 days after application.

For best weed control, apply SENCOR SOLUPAK when weeds are less than 2 inches tall or before weed foliage is 2 inches in diameter.

Reduced weed control may occur when extended dry conditions follow application of SENCOR SOLUPAK.

Crop injury may occur when:

- 1. Crop is under stress conditions such as diseases, insect infestations, poorly drained soils, drought or winter injury at time of application;
- 2. Crop is treated within 12 months after seeding;
- 3. There is excessive irrigation or rainfall immediately after application. Do not apply more than 1/2 inch of water in the first irrigation after SENCOR DF is applied.

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ALFALFA and SAINFOIN (All Areas Except California)

RECOMMENDED BROADCAST APPLICATIONS

CROP	SENCOR SOLUPA Pounds/Acre	AK REMARKS
Alfalfa and Sainfoin (Except California)	1/3 to 1 1/3	Select the proper dosage according to weeds known to be present in field to be treated. On loamy sand soils in Oregon and Washington, do not apply more than 2/3 pound of SENCOR SOLUPAK per acre.

FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES:

Rates of 2/3 to 1 pound of SENCOR SOLUPAK per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa. Higher rates will severely reduce forage grass stands.

SENCOR SOLUPAK should not be used on sand soils. In areas West of the Rocky Mountains, avoid using SENCOR SOLUPAK on soils with calcareous surface area, high levels of lime or sodium, or a pH greater than 8.2.

Weeds Controlled:

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1/3 to 1/2 pound SENCOR SOLUPAK/acre
Chickweed, Common
(Stellaria media)

1/2 to 2/3 pound SENCOR SOLUPAK/acre

Cheat (Bromus secalinus)
Deadnettle, Purple (Lamium purpureum)
Downy brome (Bromus tectorum)
Japanese brome (Bromus japonicus)
Pennycress (Thlaspi arvense)
Rescuegrass (Bromus catharticus)
Shepherdspurse (Capsella bursa - pastoris)

ALFALFA AND SAINFOIN (Continued)

2/3 to 1 1/3 pounds SENCOR SOLUPAK/acre

Broadleaves

Fleabane, Rough (Erigeron strigosus) Flixweed (Descurainia sophia) Henbit (Lamium <u>amplexicaule</u>) Kochia (Kochia <u>scoparia</u>) Lambsquarters, Common (Chenopodium album) Marestail (Horseweed) (Hippuris vulgaris) Meadow Salsify (Tragopogon pratensis) Mustard, Blue (Chorispora tenella) Mustard, Jim Hill (tumble) (Sisymbrium altissimum) Mustard, Tansy (Descurainia pinnata) Pepperweed (Lepidium virginicum)

Pigweed, Redroot
(Amaranthus retroflexus)
Prickly Lettuce
(Lactuca serriola)
White Cockle
(Melandrium album)
Wild Buckwheat
(Polygonum convolvulus)
Yellow Rocket
(Barbarea vulgaris)

<u>Grasses</u>

Foxtail, Green
(Setaria viridis)
Little Barley
(Hordeum pusillum)
Smooth Brome
(Bromus inermis)
Wild Oats
(Avena fatua)

1 1/3 pounds SENCOR SOLUPAK/Acre

Broadleaves

Chickweed, Mousear
(Cerastium vulgatum)
Dandelion
(Taraxacum officinale)
Ragweed, Common
(Ambrosia
artemisiifulia)

<u>Grasses</u>

Barnyardgrass
(Echinochloa crus-galli)
Bluegrass
(Poa annua)
Foxtail Barley
(Hordeum jubatum)

<u>Weeds Partially Controlled</u>: At the rate of 1 1/3 pounds/acre SENCOR SOLUPAK may be used to reduce the competition from curly dock (<u>Rumex crispus</u>). At 2/3 to 1 1/3 pounds/acre, SINCOR SOLUFAK may be used to reduce the competition of German Moss or knawel (<u>Scleanthus annus</u>).

SENCOR SOLUPAK Herbicide

ALFALFA

SENCOR plus Gramoxone Tank Mix

Colorado, Idaho, Kansas, Mcntana, Nevada, Oregon, Utah, Washington, Wyoming and the following California counties:

Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, and Siskiyou.

APPLICATION: SENCOR SOLUPAK plus Gramoxone Extra herbicide tank mix application is recommended for use, during the dormant season, in aerial or ground spray equipment as a broadcast surface application to established alfalfa for the control of certain grass and broadleaf weeds. Do not apply SENCOR/Gramoxone tank mix to growth that is more than 2 inches tall. Apply once per season. Do not apply following cuttings during growing season. Use a minimum of 10 gallons of water per acre with aerial spray equipment and a minimum of 20 gallons of water per acre with ground spray equipment. Add a non-ionic spreader at label rates to the spray solution.

<u>WEEDS CONTROLLED</u>: SENCOR SOLUPAK plus Gramoxone Extra (1-1/5 to 1-3/5 pints/acre) tank mix application will control established weeds. Gramoxone controls weeds by contact activity.

1/3 to 1/2 pound of SENCOR SOLUPAK
per acre

1/2 to 1 pound of SENCOR SOLUPAK
per acre

Common chickweed

Bluegrass Henbit Cheat Rescuegrass Downy brome Japanese brome Shepherdspurse Field pennycress

Use SENCOR SOLUPAK at 2/3 to 1 pound/acre for control of the following weeds:

Ryegrass
Sow thistle
Groundsel
Smooth brome
Wild oats
Blue mustard
Tansy mustard
Flixweed

Kochia
Meadow salsify
Pepperweed
Jim Hill mustard
Green foxtail
Yellow rocket
White cockle
Wild buckwheat

Prickly lettuce Little barley Redroot pigweed Common lambsquarters Marestail (Horseweed) Rough fleabane

RECOMMENDED APPLICATIONS

REMARKS DOSAGE/Acre Apply specified dosages of SENCOR and Gramoxone in at least 10 gallons of water per acre with aerial equipment or at least 20 gallons of water per acre with ground equipment. Ec not apply SENCOR SOLUPAK this tank mix to alfalfa growth if more than 2 inches tall. 1/3 to 1 pound For best weed control, apply when broadleaf weeds and grasses are 1-6 inches tall and are actively growing. Care should be taken to avoid overlaps. Do not apply more than 2/3 pound of plus SENCOR SOLUPAK per acre on loamy sand soils. Reduced weed Gramoxone Extra control may occur when extended dry conditions fellow applica-1-1/5 to 1-3/5 pints tion of SENCOR. Crop injury may occur if alfalfa is under stress conditions such as diseases, insect infestations, drought or winter injury or if SENCOR is applied to alfalfa eallier than 12 months after seeding.

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FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES: Rates of 2/3 to 1 pound of SENCOR SOLUPAK per acre will provide partial reduction of forage grass stands. These rates may be used reduce forage grass stands to prevent crowding out of alfalfa.

Do not graze or harvest within 42 days after application.

In areas west of the Rockies, avoid the use of SENCOR on soils with calcareous surface, soils with high levels of lime or sodium, and with a pH greater than 8.2.

Do not apply when weather conditions favor spray drift. Aerial application should not be made when wind speed is greater than 10 mph.

Do not use on sand soil.

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Refer to the Gramoxone Extra label for additional directions, weed species controlled and precautions.

Keg # 3125 - 1107 402-7370.YLD

PM - 25 Base Pre-Reg. (7370)

U.S. LABEL

Date of Draft: 9/24/91 (Pre-Reg)(H)

Reason to Issue: To revise directions for impregnating dry bulk fertilizer with SENCOR.

EPA Reg. No. 3125-402

SENCOR® SOLUPAK™ 75% Dry Flowable Herbicide

ACTIVE INGREDIENT:

4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one 75%

INERT INGREDIENTS: 25%

100%

REVISE TO READ AS FOLLOWS:

MCCEPTED 1975 10 11/2

AMENDMENT TO CURRENTLY REGISTERED LABELING

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