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MARKSMAN® HERBICIDE

FOR USE IN CONVENTIONAL, REDUCED AND NO-TILLAGE SYSTEMS FOR SEASON-LONG BROADLEAF WEED CONTROL IN FIELD AND SILAGE CORN OR IN GRAIN SORGHUM (MILO)

DIRECTIONS FOR USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING

THIS LABEL MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION

ACCEPTED
JAN 1 0 1986
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 876-451

E.P.A. Reg. No. 876-451

PROPOSED LABEL

CONTENTS

1. The word "corn" has been substituted with "crop" since MARKSMAN® Herbicide would be used on both corn and sorghum.

2. This statement was previously found under the mixing and application section.

MARKSMAN Herbicide

DIRECTIONS FOR USE

BEFORE USING MARKSMAN HERBICIDE READ AND FOLLOW THE PRECAUTIONS APPEARING ON THE CONTAINER.

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IMPORTANT

Do not contaminate irrigation ditches or water used for domestic purposes.

Atrazine leaches readily and accepted label rates have been found to result in contamination of water supplies by way of groundwater. Therefore, users are advised to avoid use of atrazine in well drained soils, or in areas having high groundwater tables.

Broadleaf crops are sensitive to MARKSMAN Herbicide and contact may result in crop injury. Do not apply when weather conditions favor drift from target areas.

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

2. Avoid cultivating treated areas for at least seven days following a postemergence application.

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

REFER TO THE CONTAINER LABEL FOR INSTRUCTIONS CONCERNING DISPOSAL OF WASTE AND CLEANING RINSES.

- The word "crop" has been substituted for corn since MARKSMAN Herbicide would be used on both corn and sorghum.

- The word "broadleaf" has been changed to "sensitive" to precaution the user.

- For clarity, the sentence has been reworded without changing the intent of the original sentence.

- The lower diluted spray application range has been adjusted upward from 10 to 15 gallons.

MIXING AND APPLICATION

1. MARKSMAN Herbicide is a water-dispersible formulation that can be applied using water or sprayable fluid fertilizer as the carrier. Use of a sprayable fluid fertilizer carrier after the crop emerges may result in crop injury. If a fluid fertilizer is to be used, a compatibility test (see COMPATIBILITY TEST on page __) should be made prior to tank mixing.

2. Ground or aerial application equipment which will give good spray coverage of weed foliage should be used. However, do not use aerial application equipment if sensitive crops are growing in the vicinity of the area to be treated.

3. Before making application, be sure all equipment is clean and not contaminated with any other materials to avoid potential crop injury or sprayer clogging.

4. Apply 15 to 50 gallons of diluted spray per treated acre when using ground application equipment, or 3 to 10 gallons of diluted spray per treated acre when using aerial application equipment. Use the higher level of the listed spray volumes when treating dense or tall vegetation. Use coarse sprays.

Thoroughly clean equipment following applications of MARKSMAN Herbicide. A *water-dispersible formulation* requires the use of a water-detergent rinse.

1. The word "herbicide" has been replaced with "components" and the sentence has been reworded without changing the intent of the original sentence.

BAND TREATMENT

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

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast RATE per treated acre} = \text{Band RATE per treated acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast VOLUME per treated acre} = \text{Band VOLUME per treated acre}$$

COMPATIBILITY TEST

Before mixing in the spray tank, it is advisable to test physical 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 FORMULATIONS	RATE PER ACRE	LEVEL TEASPOONS
Dry	1 lb.	1 1/2
Liquid	1 pt.	1/2

1. If components do not form flakes, sludge, gels, oily films or layers, other precipitates, or do not ball-up, then the tested spray mix is physically compatible. Usually, 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 is recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon is equivalent to 2 pints per 100 gallons of fluid fertilizer).

1. "Timings" have been incorporated into the sentence.

WEEDS CONTROLLED LIST

1 •MARKSMAN Herbicide, when applied at recommended rates and timings, will control many ANNUAL broadleaf weeds and give growth suppression of many PERENNIAL broadleaf weeds.

ANNUALS	PERENNIALS
buckwheat, wild	alfalfa
burcucumber	artichoke, Jerusalem
chickweed, common	bindweed, field
clovers (annual)	bindweed, hedge
cocklebur, common	clovers (perennials)
cucumber, wild	dandelion, common
jimsonweed	dock, broadleaf (bitterdock)
knotweed	dock, curly
kochia	dogbane, hemp
ladysthumb	horsenettle, Carolina
lambsquarters, common	lespedeza
lambsquarters (triazine resistant)	milkweed, common
mallow, common	smartweed, swamp
mallow, Venice	thistle, Canada
morningglory, ivyleaf	vetch
morningglory, tall	
mustard, wild	
mustards (yellowtops)	
nightshade, black	
pigweed, prostrate	
pigweed, redroot (carelessweed)	
pigweed, rough	
pigweed, smooth	
pigweed (triazine resistant)	
pigweed, tumble	
puncturevine	
purslane, common	
ragweed, common	
ragweed, giant (buffaloweed)	
sicklepod	
sida, prickly (teaweed)	
smartweed, green	
smartweed, Pennsylvania	
spanishneedles	
spurge, prostrate	
sunflower, common (wild)	
sunflower, volunteer	
tansymustard	
thistle, Russian	
velvetleaf	

1. This statement was previously under the Important section.

2. New statement added to provide the user with additional information on the weeds controlled.

3. This sentence has been reworded without changing the intent of the original statement.

FIELD AND SILAGE CORN

IMPORTANT

Observe all precautions on page __.

Read and follow mixing and application instructions.

1. Prior to the ensilage (milk) stage of the crop, *do not harvest* or graze corn for dairy or beef feed.

WEEDS CONTROLLED

2. HARRSMAN Herbicide, when applied at the recommended rates and timings for field and silage corn, will control many ANNUAL broadleaf weeds (e.g. velvetleaf) and will reduce the competition from established PERENNIAL broadleaf weeds as well as control their seedlings.

3. For best performance, make application when weeds are small (less than 3 inches tall) and actively growing.

Refer to the WEEDS CONTROLLED LIST for specific weeds

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1. The broadcast rate previously read as 3.5 and has been changed to 3½ for consistency in rates.

RATES AND TIMINGS

Application of MARKSMAN Herbicide may be made prior to, during, or after planting, but before the corn exceeds the 5 leaf stage. Refer to the table below for specific application rates, based on soil texture and organic matter content.

SOIL TEXTURE	BROADCAST RATE PER TREATED ACRE: 2% or less organic matter	BROADCAST RATE PER TREATED ACRE: more than 2% organic matter
COARSE SOILS sand, sandy loam and loamy sand	2 PINTS	3 PINTS
MEDIUM SOILS loam, silt loam, silt, sandy clay and sandy clay loam	3 PINTS	3 1/2 PINTS
FINE SOILS silty clay, silty clay loam, clay loam and clay.	3 1/2 PINTS	3 1/2 PINTS

ALL SOILS CONTAINING GREATER THAN 8% ORGANIC MATTER - USE 3 1/2 PINTS PER TREATED ACRE.

The addition of an agriculturally approved surfactant, crop oil, or petroleum oil to the spray mixture may improve weed control. A surfactant or oil may may be used with all preplant and preemergence applications of MARKSMAN Herbicide. However, do not use oil when making post emergence applications.

OVERLAY (SEQUENTIAL) TREATMENTS

MARKSMAN Herbicide may be applied to ground previously treated with one or more of the following herbicides:

Herbicide	Maximum rate per treated acre (lbs. a.i.)
alachlor (Lasso®)	4
Bronco® (alachlor + glyphosate premix)	5
butylate (Sutan+®)	6
cyanazine (Bladex®)	4
EPTC (Eradicane®)	6
glyphosate (Roundup®)	5
metolachlor (Dual®)	3
paraquat	1
pendimethalin (Prowl®)	2
propachlor (Bexton®, Ramrod®)	6

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

1. The first sentence in this paragraph has been reworded without changing the intent of the original sentence.

2. Previously 2 1/2% but changed to 2.5% for consistency.

3. Previously 1/4 - 1/2 and 1/8 - 1/4 lbs. but changed to 0.25 - 0.50 and 0.125 - 0.25 lbs. for consistency in rates.

TANK MIX TREATMENTS

1. MARKSMAN Herbicide may be tank mixed with one or more of the following herbicides for control of additional broadleaf weeds or for control of grass weeds in corn. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restriction.

Marksman PLUS BLADEX: Application may be made before grasses are 1 1/2 inches tall and the corn is not beyond the four true leaf stage. Use 1.25-4.0 lbs. a.i. Bladex per treated acre for preemergence treatments or 1.25-2.0 lbs. a.i. Bladex per treated acre for postemergence treatments. AFTER CORN EMERGENCE, USE ONLY THE BLADEX 80W FORMULATION.

Marksman PLUS DUAL: Application may be made until grasses reach the two-leaf stage and before corn is greater than 3 inches tall. Applications prior to crop emergence should only be made to fine textured soils containing 2.5% or more organic matter. Use 1.50-2.50 lbs. a.i. Dual per treated acre.

Marksman PLUS LASSO: Application may be made until grasses reach the two-leaf stage and before corn is greater than 3 inches tall. Applications prior to crop emergence should only be made to fine textured soils containing 3% or more organic matter. Use 1.5-4.0 lbs. a.i. Lasso per treated acre.

Marksman PLUS PARAQUAT: Application may be made to emerged weeds, but before corn emerges. Use 0.25-1.0 lb. a.i. paraquat per treated acre.

2. **Marksman PLUS PROWL:** Application may be made immediately after planting, but before grasses and corn emerge. Make applications only on medium or fine textured soils containing greater than 2.5% organic matter. Use 1.0-2.0 lbs. a.i. Prowl per treated acre.

Marksman PLUS ROUNDUP: Application may be made to emerged weeds, but before corn emerges. Use 1.0-3.0 lbs. a.i. Roundup per treated acre.

3. **Marksman PLUS 2,4-D:** Application may be made to emerged and actively growing weeds prior to, during, and after planting but before corn exceeds the 5 leaf stage. Use 0.25-0.50 lb. 2,4-D acid equivalent per treated acre before corn emerges and 0.125-0.25 lb. 2,4-D acid equivalent per treated acre after corn emerges.

1. The proposed grain sorghum section,

1. GRAIN SORGHUM (MILO)

IMPORTANT

Observe all precautions on page __.

Read and follow mixing and application instructions.

Applications of MARKSMAN Herbicide to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrown within 10-14 days.

On coarse soils, injury to sorghum may occur if heavy rain immediately follows application.

Rainfall or irrigation occurring within 6 hours after application may reduce the effectiveness of MARKSMAN Herbicide.

Do not apply to furrow planted sorghum until level (plowed in).

Make no more than one application of MARKSMAN Herbicide per growing season.

Delay harvest until 30 days after treatment.

Do not apply MARKSMAN Herbicide to sorghum grown for seed production.

Do not graze or feed treated sorghum forage or silage prior to mature grain stage.

WEEDS CONTROLLED

MARKSMAN Herbicide, when applied at the recommended rates and timings for grain sorghum, will control many ANNUAL broadleaf weeds (e.g. pigweed) and will reduce the competition from established PERENNIAL broadleaf weeds as well as control their seedlings.

For best performance, make application when weeds are small (less than 3 inches tall) and actively growing.

Refer to the WEEDS CONTROLLED LIST for specific weeds.

RATES AND TIMINGS

MARKSMAN Herbicide may be applied postemergence in grain sorghum (milo). Applications may be made to sorghum once it has 3 leaves up until it has 5 leaves.

BROADCAST RATE PER TREATED ACRE: 1 1/2 to 2 pints

Use 1 1/2 pints MARKSMAN Herbicide for control of pigweed spp. that are less than 3 inches tall and are actively growing. Use 2 pints of MARKSMAN Herbicide for control of all other listed broadleaf weeds.

Do not add surfactant or crop oil.

OVERLAY (SEQUENTIAL) TREATMENTS

MARKSMAN Herbicide may be applied to ground previously treated with one or more of the following herbicides:

Herbicide	Maximum rate per treated acre (lbs. a.i.)
alachlor (Lasso®) (Screen® - treated seed)	4
atrazine	2.25
metolachlor (Dual®) (Concep® - treated seed)	2.50
propachlor (Ramrod®)	5
propazine (Milogard®)	3.20

TANK MIX TREATMENTS

MARKSMAN Herbicide may be tank mixed with the following herbicide for added residual or for grass control in sorghum. Read and follow the label of each product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Marksman PLUS ATRAZINE: For use only on fine soils. Add 0.50 lb. a.i. atrazine per treated acre for added residual broadleaf weed control. Add 1.50-2.25 lbs. a.i. atrazine per treated acre for control of emerged grasses less than 1 1/2 inches tall. Atrazine carryover may injure small grains and broadleaf crops if the total rate of atrazine exceeds the rate recommended for that specific geographic area or crop rotation.

REGISTERED TRADEMARKS

Bexton® is a registered trademark of Dow Chemical Company.

Bladex® is a registered trademark of Shell Chemical Company.

Bronco®, Lasso®, Ramrod®, and Roundup® are registered trademarks of Monsanto Agricultural Products Company.

Dual® and Milogard® are registered trademarks of Ciba-Geigy Corporation, Agricultural Division.

Eradicane® and Sutan+® are registered trademarks of Stauffer Chemical Company.

Prowl® is a registered trademark of American Cyanamid Company.

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THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF THE PESTICIDE APPLICATION.

USE PESTICIDES PROPERLY.
PROSPER WITH PESTICIDES BY USING THEM PROPERLY. READ AND FOLLOW LABEL DIRECTIONS

NOTICE: READ LIMITED WARRANTY AND LIABILITY ON THE CONTAINER BEFORE BUYING OR USING. IF TERMS ARE NOT ACCEPTABLE RETURN AT ONCE UNOPENED

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