ALFALFA (ON FALL-SEEDED NEWLY ESTABLISHED STANDS LESS THAN 1 YEAR OLD) - BROADCAST (REGION A)

General Information

RESISTANCE MANAGEMENT

This product is a Group 22 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 22 herbicides. Weed species with acquired resistance to Group 22 may eventually dominate the weed population if Group 22 herbicides are used repeatedly in the same field or in successive years as primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 22 herbicides.

To delay herbicide resistance, consider:

- Avoiding the consecutive use of this product or other target site of action Group 22 herbicides that have a similar target site of action on the same weed species.
- Using tank-mixtures or pre-mixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank-mix or pre-pack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive IPM program.
- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

DIRECTIONS FOR USE

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not use around home gardens, schools, recreational parks, golf courses or playgrounds.
USE INSTRUCTIONS AND INFORMATION

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

When THIS PRODUCT is applied at less than 10 gallons per acre finished spray volume, a drift control or spray deposition additive SHOULD be used. Refer to the additive label for rates of applications, directions for use, limitations and restrictions.

USE INFORMATION

THIS PRODUCT is a liquid formulation containing 3 pounds of active ingredient per gallon. It contains a non-toxic odor to help prevent accidental ingestions. It also contains an emetic (an agent which will induce vomiting if the product is swallowed).

APPLICATION

THIS PRODUCT is a contact herbicide for control or suppression of a broad spectrum of emerged weeds including most small Annual broadleaf and Grass weeds. It can also be used to suppress Perennial weeds by destroying green foliage and as a desiccant/defoliant at harvest.

Complete coverage of target weeds is necessary to get good control because THIS PRODUCT is a contact-type herbicide. It is also necessary to obtain complete coverage for good crop desiccation and defoliations. Undesirable weed control and undesirable crop desiccation/defoliation will result if improper application technique and/or application to large, stressed or mown weeds are made. Refer to the following details for specific application instructions.

Thorough coverage of all green foliage is required for efficacious weed control and crop defoliation and desiccation because THIS PRODUCT requires actively growing green plant tissue to function. Droughtstressed weeds, weeds with little green foliage (i.e., mowed or cut weeds) or mature woody bark of trees and vines are unaffected by application with THIS PRODUCT.

There is no residual soil activity to affect later-planted crops or later germinating weeds because clay and organic matter rapidly tie up THIS PRODUCT.

ROTATIONAL CROPS

After the last application of THIS PRODUCT, all rotational crops may be planted
immediately.

RAINFASTNESS

Rain occurring 30 minutes or more after application will have no effect on the activity of THIS PRODUCT because it is rapidly absorbed by the weed foliage.

USE OF A NON-IONIC SURFACTANT OR CROP OIL CONCENTRATE

The following should always be added and be used at the recommended rates or there will be a reduction in efficacy of THIS PRODUCT.

Non-ionic Surfactant: Either add a non-ionic surfactant cleared for the current use containing 50 to 74% surface-action agent at 0.25% v/v (2 pts./100 gals.) or add non-ionic surfactant containing 75% or more surface-active agent at 0.125% v/v (1 pt./100 gals.), of the finished spray volume for ground applications. Add a non-ionic surfactant at 0.25% v/v (2 pts./100 gals.) of the finished spray volume for aerial applications.

Crop Oil Concentrate: For ground applications, add a non-phytotoxic crop oil concentrate cleared for the current use that contains 15 to 20% approved emulsifier, with 1.0% v/v (1 gal./100 gals.) of the finished spray volume. Add 1 pint of crop oil concentrate per acre for aerial applications. For Cotton harvest aid, do not use crop oil concentrate when using THIS PRODUCT.

NOZZLE SELECTION

The use of flat-fan nozzles is the most effective application of THIS PRODUCT. The use of flood nozzles may result in a reduction of weed control due to inadequate coverage because they produce large uneven droplets.

Use only flat fan nozzles when spraying less than 20 gallons of spray carrier per acre using the following table in the label.

SPRAY CARRIER

THIS PRODUCT may be inactivated by muddy water or suspensiontype fertilizers containing clay. Therefore, always use clean water (free of mud or clay), clear liquid Nitrogen or complete clear liquid fertilizers as the carrier when spraying this product. Never use suspension-type fertilizers containing clay as the spray carrier.
Always use the higher rate of THIS PRODUCT and surfactant if using a complete clear liquid fertilizer containing high phosphate levels as the spray carrier. Note: It is important that when using liquid fertilizers such as 28% N as a spray carrier, that non-ionic surfactant still be used with THIS PRODUCT. The use of liquid fertilizer carriers are not substitutes for surfactants.

RATES OF THIS PRODUCT

With each use, follow rates listed in the following tables. When weeds are larger or are dense, use the higher label rates. For use as a harvest aid, use higher rate when crop vegetation is dense. Do not exceed 0.50 pound a.i. per acre in a minimum of 30 gallons of spray for broadcast applications with backpack sprayers.

SPRAY VOLUME

With each use, follow rates listed in the following tables. Spray volumes should be increased as necessary to obtain complete coverage of the target weed or plant without runoff from the foliage, because the volumes listed are minimum volumes only.

TARGET WEEDS SHOULD NOT EXCEED SIX INCHES IN HEIGHT WHEN SPRAYING LESS THAN 20 GALLONS OF SPRAY CARRIER PER ACRE.

APPLICATION TIMING

Applications should be made to small emerged weeds. Larger weeds more than 6 inches in height may be more difficult to control than weeds 1 to 6 inches in height. If possible, when green foliage is removed either from grazing or mowing, allow the weeds to grow 2 to 4 inches in height. Also, during harvesting Forage or Grain crops before spraying, weeds present in the field are also cut. Therefore, raise cutter bars as high as possible from the ground to cut stubble and weeds at a greater height, allowing sufficient green foliage to remain for applications.

BURNDOWN OF GRASS COVER CROPS OR VOLUNTEER CEREALS
The best results occur for control of Grass cover crops or Volunteer cereals when THIS PRODUCT is applied prior to tillering or after boot stage, especially with a Wheat cover crop or Volunteer wheat. Complete control may not be achieved with treatments made between tillering and boot stage. Complete control of Perennial cover crops should not be expected.

ENVIRONMENTAL CONDITIONS

This product is active over a wide range of environmental conditions such as cool (below 55°F), cloudy or overcast weather. However, these conditions will slow the activity of THIS PRODUCT.

SPOT SPRAYING

Refer to the following table in the label if only small areas are to be sprayed with labeled applications.

USE PRECAUTIONS

- Unless otherwise indicated, THIS PRODUCT will severely injure or kill crop plants emerged at time of application if they come in contact with sprays.
- To enable maximum weed and Grass emergence prior to treatment, seedbeds and plantbeds should be formed as far ahead of planting and treatment as possible.
- Avoid disturbing soil when seeding or transplanting.
- Transplanted plants may become damaged when they come in contact with plastic mulch used for pre-plant weed control and that has been treated with this product. To prevent damage to the crop, sufficient washoff such as rainfall or sprinkler irrigation prior to planting may be needed.
- THIS PRODUCT will be ineffective in controlling or suppressing weeds and Grasses that have emerged after application.

EQUIPMENT
THIS PRODUCT is mildly corrosive to aluminum. Thoroughly flush all aluminum spray equipment and aluminum aircraft structures that are exposed to spray solution or spray drift with water immediately after use. The activity of THIS PRODUCT may be reduced in dry areas where dust stirred up by high winds or equipment tires can coat weed or plant leaves. Therefore, avoid applications in extremely dusty conditions.

USE RESTRICTIONS

- Do not pasture livestock in treated fields or feed treated foliage in Cotton when this product is used as a Cotton harvest aid.
- Do not use around home gardens, schools, recreational parks or playgrounds.
- Do not apply to soils lacking clay minerals such as Peat, Muck, Pure sand, artificial planting media for pre-plant and pre-emergence (to the crop) uses.

Limitations, Restrictions, and Exceptions

ALFALFA (REGION A)

APPLICATION INSTRUCTIONS

On fall-seeded newly established stands less than 1-year-old

Weeds: Other winter annuals; and suppression of perennial weeds.

California: Desiccation of weeds including bluegrass, ryegrass, shepherdspurse, chickweed, tansymustard, foxtail, sowthistle and groundsel.

Use Pattern: Broadcast

Minimum Total Spray Per Acre:

Ground: 10 gals.

Air: 5 gals.

Additional Precautions, Restrictions and Directions

- Apply before first Spring cutting and during late Fall or Winter months after the last Fall cutting.
- California: Do not apply if spring regrowth after grazing or cutting is more than 2 inches in Orange and Riverside counties, and all counties north of these counties.

- All other areas within Region B: Do not apply if regrowth after grazing or cutting is more than 2 inches.

- Do not harvest within 60 days of application.

- Applications to alfalfa that is not dormant, or has broken dormancy, may result in stand and/or yield reductions. Replanting may be necessary. Green alfalfa foliage present at time of application will be burned.

- If there is a severe weed infestation, total hay yield of first cutting may be reduced in alfalfa fields and the reduction is typically directly proportionate to the loss of weed weight.

- For improved and residual weed control in dormant established (at least 1-year-old) alfalfa, tank mix with metribuzin (Lexone or Sencor). Do not apply tank mix with metribuzin on alfalfa that is less than 1-year-old.

- Always refer to metribuzin label for weeds controlled, rates of applications, directions for use, limitations, and restrictions.

California

- If ryegrass, shepherdspurse, sowthistle or groundsel are present, use higher rate.

REGION A


Method

Broadcast/Foliar Air
Broadcast/Foliar Ground
Pre-Harvest Interval
60 days

Rates

field_rates 0

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Restricted Entry Interval

For chemical fallow and early post-emergence broadcast in Peanuts and dormant season applications, and “between cutting” applications in Alfalfa: Do not enter or allow worker entry into treated areas during the REI of 12 hours.

For harvest aid and desiccation applications; pre-plant or preemergence (broadcast or banded) and post-emergence directed spray applications: Do not enter or allow worker entry into treated areas during the REI of 24 hours.

Timings
Before first spring cutting and during late fall or winter months after the last fall cutting.