ACCEPTED

MAY 2 0 1981

Under the Lederal Insecticide, Fundicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 364 60 1/4



ATRAZINE4L

HERBICIDE

FOR SEASON-LONG WEED CONTROL IN CORN AND SORGHUM.

ATRAZINE 4L CONTAINS 4 LBS. ACTIVE INGREDIENTS PER GALLON.

ACTIVE INGREDIENTS:

Atrazine (2-chloro-4-ethylamino-6 isopropylamino-s-triazine) 42.75%
Related Compounds 1.35%
INERT INGREDIENTS: 55.90%
TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

- IF SWALLOWED Drink one or two glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention immediately.
- IF INHALED Remove victim to fresh air and apply respiration if indicated.
- IF ON SKIN Wash promptly with soap and water. Rinse thoroughly.
- IF IN EYES Rinse eyes for at least 10 minutes with water and call a physician immediately:

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY
STATEMENTS

21/2 GALLONS

EPA Reg. No. 36480-14

EPA Est. No.

Manufactured by:



MID-AMERICA CHEMICAL CO., INC. 42
402 SOUTH FIFTH STREET, I BAVENWORTH, KANSAS 66048

PRECA HAZAROS TO

Harmful if swallow mist. Avoid contact

ENV

Do not apply direct apply where runof weather conditions contaminate water wastes.

tt is a violation of manner inconsisted

S1 ON: D

PROHIBITION: E feed by storage

PESTICIDE DISPO Pesticide, spray according to la according to Fe the Resource Co

CONTAINER DIST offer for recyclil sanitary landfill and local author

MPORTANT: Read the ent. using this product.

CONDITIONS OF SALE

The Directions for Use of tests. The directions are be impossible to eliminate all implicationness, or other unauther conditions, present are beyond the control of the Buyer.

The above company war label and is reasonably fit in integrity fate referred to at all Fignesser Marchestates company or the Settly bell area on the company of the Settly bell area only by agreement only by agreement only by agreement only by agreement only by agreement.

GEKERAL INFORM

This herbicide controls in barryardgrass, witchgassis shall deal of the president of the president of the president of the president of the product acts in to more it into the root zone result in better weed control. This product is nonfarmed Avoid uting where adjace NOTE: The above correlativeless or old aucept of the product of the

ZINE4L BICIDE

ING WEED CONTROL ND SORGHUM.

NTAINS 4 LBS. ACTIVE TS PER GALLON.

NGREDIENTS: mino-6 isopropy- 🕟

...... 42.75% 1.35% 55.90% 100.0%

ACH OF CHILDREN

TION

ACTICAL TREATMENT

he or two glasses of water and ng back of throat with finger or e vomiting or give anything by person. Get medical attention

tim to fresh air and apply

ly with soap and water. Rinse

for at least 10 minutes with inmediately:

PITIONAL PRECAUTIONALY MENTS

EPA Est. No.

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HEMICAL CO., INC. DAVENWORTH, KANSAS 66046

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid inhalation of vapors or spray mist. Avoid contact with skin, eyes or clothing.

ENVIRONMENT HAZARDS

Do not apply directly to lakes, streams, or ponds. Uo not apply where runoff is likely to occur. Do not apply when weather conditions favor a drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: (all except household)

Pesticide, spray mixture or rinstate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill or by incinaration if permitted by State and local authorities.

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is empossible to eliminate all risks inherently associated with use of this product. Crop injury. meffectiveness of such factors as ther conditions, presence of other materials, or the manner of use or application all of which ere beyond the control of the above company of the Setier. All such risks shall be assumed by the

The above company warrigs that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the interestricts referred to above. The above company makes no other express or mplied warranty and fighester standard terms and the second standard terms. of Fights son Merchantshiperyer any other express or implied warranty. In no case shall the above Company of the Sedig be lighter or consequential, special, or indirect disneyes resulting from the energy legiting of this product. The above company and the Seller offer this product, and the Suyefund user accept afficiation to the foregoing Constitions of Sale and Warranty, which may be varied only by agreement in writing aigned by a duty authorized representative of the above o8+**20**1} *

GENERAL INFORMATION

This harbicide controls many arrival procedest and grass wasds in corn and sorghum including ardgrass, witchgrass(Benicum capdare), yellow fourfall, green fourfall, wild cets, turge (heiry) classifies, gard touthi, Pelygifest morrangeory, lambaquarters, pigreeed, regreeed, nightwhate parallels, and nightwhate parallels, pigreed, nightwhate parallels, night

Where use directions give a fampe of rative, use the lower rate on coarse-textured soil and tool low in organic matter, and the higher rate on fine-textured soil and soil high in organic matter s product acts mainly through root absorption, its effectiveness depends on moisture

to move it into the root zone. If weeds develop, a shallow curristion of rotary hoeing will generally iotinos beew telfed ni fluger

This broduct is nonfiammable

Avoid using where adjacent desirable trees, shrubs, or plants might be injured NOTE. The above company does not recommend applications in combination with other harbicides or oils except as specifically described on the label or at Merature published by the

APPLICATION PROCEDURES

GROUND APPLICATION. For the most undorm distribution of broadcast applications, use 80 flat fan-type nozzles. For band applications, use flat fan even apray nozzles. Screens and strainers should be no finer than 60-mesh. Use a pump with capacity to (1) provide sufficient agriction during mixing and application to keep material in suspension, and (2) maintain 30-40 pai operating pressure. Unless otherwise specified, use a minimum of 5 gal. of water/A for preplant incorporated, preemargence, and postemergence (without of or auriaciant) applications. Use a minimum of 10 gal of water/A for all postemergence applications combined with oil or surfactant. For band applications, calculate amount to be applied per acre as follows:

> Band width in inches Broadcast rate Row width in inches

per scre

Amount needed par acre of held

AERIAL APPLICATION. For preplant and preemergence broadcast treatme ratio to water (example: recommended rate of 1 of of product is mixed with 1 of, of water) to be applied/A. For postemergence trentments, apply recommended rate in a minimum of 2 gal. of water/A. Avoid applications under conditions where uniform coverage cereot be obtained or where excessive apray drift may occur.

Do not soply directly to humans or animals. Flagmen or loaders should avoid exhaustion of spray mist and contact with skin and should wash thoroughly before eating and at the end of each day's

APPLICATION IN WATER OR LIQUID FERTILIZER: Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for preemergence and preplant applications. Check the competibility of this product with liquid furtilizer and/or nitrogen solution before use. Do not apply in signid fartilizers after com or eorghum emerges as crop injury may

APPLICATION IN WATER PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE:

Arctino emulsidable of or of concentrate to postenergence water-based sprays may improve trol. However, under certain conditions, use of either equisidable oil or oil concentrate may seriously damage com or sorghum. To minimize this possibility, follow directions, recordings, and resembleds balons.

Use a crop of concentrate designed for use with this product and containing not more than 20% emulsifier or surfactant bland. Several pits and crop oil concentrates of this types are on the market. Emulsitiable oil and oil concentrate contaminated with water or other materials can cause compatibility problems with/or crop injury.

Mixing Procedures—all uses: (1) Be sure sprayer is clean and not contamin other materials, as crop injury or 6,719/er clogging may result. (2) Fill tank 1/s to 1/s full with clean water (3) Start Actation, (4) Pour product oxectly from container into tent. (5) Add emuls/right oil or oil concentrate. (5) Finish filling tests with water, narogen solution or liquid fertilizer. (?) Empty tank as completely as possible before refilling to prevent buildup of oil or residue in tank. Mantan agains to troid separation of other materials from water, nitrogen solution, or liquid fertilizer remaining in tank. (8) If an oil or oil concentrate film starts to build up in tank, drain it, and clean with strong detergent solution or solvent. (9) Clean sprayer thoroughly imm use by flushing system with water containing a detergent. (10) For Equid nitrogen or Equid fertilizer, use suction screens of 16-mesh or courser.

DIRECTIONS FOR USE:

FAILURE TO FOLLOW ALL PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED

CONTROL CROP ILLURY, OR ILLEGAL RESIDUES.

CORN

Apply before planting, at planting, or after planting as incideted below.

PREPLANT (Broadlest and criss) control)

Broadcast in spring after plowing at rate in Table 1. Apply before, during, or after final seached preparation. If and it titled or worked after application, avoid deep incorporation. For best results, apply within two weeks prior to planting.

PREEMERGENCE (Broadles) and grass control)

Apply during or shootly after plenting, prior to weed emergence at rate in Table 1.

POSTEMERGENCE (Broading and grass control)

Apply before weeds exceed 1.5 inches in height at rate in Table 1.

TABLE 1

Broadleaf and Grass Week Control on Corn* Soil Texture	Grosdosi rate A
COARSE Sand, loamy sand, sandy loam	4 pt
MEDRUM Sit and clay loam loss or organic matter	→ 4.75 pt.
FINE Sit and clay foam with medium to high organic matter, clay (including the dark phane soils of the Corn Bett)	6 pt.
Peal, muck, high organic clay (nostizaergence only)	6 pt

'Broadleal weed control (eastern CO, western KS, western NE, Allf, OK Pan Handle, west TX, and eastern WY). On eand, loamy eard, sandy loam, mild to strongly abains soil, and as recently leveled solt, apply 2.4 pt A, either preplant or preemergence. Controls many broadlest weeds excluding bigished labsquarters, highlishade, pursiane, and knothes. On other and types griffese ereas, apply at rate in Table 1 for broadlest and grass control.

Lay-by treatment (Broadleaf and grass control)

Broadcast 2-4 pt A in a minimum of 5 gal of water a natiogen solution before weeds are 1.5 mohes high and corn is 20-30 inches high. When using nitrogen solutions, direct the spray to lower 3.4 inches of comstalks to avoid corn foliage in injury. Maintain agration in agray tank during

Postemergenne with emulsifiable oil or oil concentrate in water

Broadlest and grass control. Broadcast 4 pt/A after weed emergence, but before weeds reach 1.5 inches in height. Add emulsifiable of at rate of 1 gal/A for ground applications and 0.5 gal/A for menal applications. Add of concentrate at rate of 1 qt/A for ground applications.

Broadlest control Broadcast 2.4 pt/A for control of broadlest weeds, such as annual morninggiory, cocklebur, lambsquarters musterd pigweed, regweed, smartweed, and wild buckeheat. Add emuls/lable oil at rate of 1 gal/A for ground applications and 0.5 gal/A for sense applications. A44 of concentrate at rate of 1 qt/A for ground applications. Apply before projected and lambsquarters reach 8 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

Precautions for applications with amuls/fable of or of concentrate in water. (1) Do not apply when crop is under stress from prolonged cold, wet weather, poor fertility, or other factors, or when crop is wet and successnt from recent rainfall, as crop injury may occur. (2) inbred lines or any breeding stock may be severely injured by applications with emulsifiable of or oil concentrate. (3) Adding other meeticides, herbicides, liquid fertilizers, and other meterials is not recommended because they may cause compatibility problems and/or crop injury. (4) Store and handle emulaifiable of and oil concentrate carefully. Oil contaminated with even a small amount of water may not emulsify properly when acided to tank. (5) Do not make more than one application per asseon except as recommended for control of yellow nutsedge and Canada thistle on this tabel

Center pivot sprinter application - Preemergence or postemergence (CO, KS, NE, SD, & SY)

Apply with Inigation water either after planting before com and weeds emerge, or after com emergence, but before tay-by (20-30 inches) and before weeds exceed 1.5 inches in height, at rates in Table 1. Prepare mixture with minimum ratio of 1 part product to 1 part water, injecting 8 larger volume of a more dilute alurry per hour will assure more accurate calibration of metering equipment Maintain sufficient agitation to keep herbicide in suspension. Meter sturry into irrigation water during entire period. Apply in 1/1-1 such of water. Use the lower volume on coarser textured soits, the higher volume on finer textured soits. More than 1 inch of water may reduce weed control by moving herbicide below the effective zone in the soil. Inject dilute aluny into system through a positive displacement pump

mental Sterature published by the above company for more inform Refer to suppli

Preceutions: (1) Apply only through irrigation systems containing anti-alphon and check valves to in of well during shutdown and overflow of solution tank. (2) Inject shead of any right angle turn in the main line to insure adequate mixing. (3) Chemical injection pumps and or pumps must have interlocking controls to insure simultaneous eleutoff. (4) Application when drift may occur from windy conditions, when system points and connections are leaking, or when nozzlee are not providing uniform distribution may cause crop injury (5) Where aprintier distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where aprinting the fluid putterns overlap excessively, crop injury may result.

PROBLEM WEEDS:

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Yellow nutsedge and Canada thistle. This product will control yellow nutsedge (Cyperus us) and Canada thistie (Cirsium arvense) when applied according to use directions. For best results, apply each year until yellow nutsedge or Canada thistie is eliminated or reaches. a level of infestation where neither weed is a problem. If yellow nutsedge or Canada thistic regrow following last application, cultivate once. When this product is applied postemergence to the eeds, add 1 gat. of emuts-fable crop oil or 1 qt. of oil concentrate: A

Six atternative methods of use for control of yellow nutsedge and Canada thistie are listed below in order of preference. If other weed species, such as arrival grasses, are also expected, use

- 1. Broadcast 4 pt. plus 1 gat. or emultiflable oil or 1 gt. of oil concentrate/A, after czoc and vellow nutsedge or Canada thielie emerge, but before yellow nutsedge reaches a height of 3 inches or Canada thistic reaches a height of 6 inches. Repeat application before tay-by (20-30 inches), 10-20 days after the first application has been made
- 2. Broadcret 4 pt/A preplant. Follow with an application of 4 pt. pt/s 1 gat of emulsifiable of or 1 of oil concentrate/A, after corn and weeds emerge, but before yellow nutsedge reaches a height of 3 inches (yellow nutsedge control only)
- 3. Broadcast 4 pt/A during or shortly after planting, but prior to crop or weed emergence. Follow with an application of 4 pt. size 1 gal. of emulsifiable oil or 1 ct. of oil concentrate/A, after com and weeds emerge, but before yellow nutseage reaches a height of 3 inches or Canada thistic reaches a height of 6 inches
- 4. Broadcast 8 pt. plus 1 gal of emulsifiable oil or 1 qt. of oil concentrate/A after crop emerges, but prior to lay-by (20-30 inches) and after yellow nutserige and Cenada thiste emerge, but before yellow nutsedge in 3 inches tall or Canada this tie is 6 inches tall
- Broadcast 8 pt/A preplant (yellow nutsedge control only)
- 6. Broadcast 8 pt/A during or shortly after planting, but prior to crop or weed emergence (yellow nutsedge control only).

NOTE. Do not use emutafiable oil or oil concentrate when corn is wet or under stress, especially using 8 pt. of this product/A. See : Precautions for app concentrate in water" for additional directions.

Quickarable control on land poing into comproduction:

Split application. Broadcast 4 pl/A in fall or apring. Plow 1-3 weeks later. Broadcast a second application at 4 pUA in spring before, during, or after plainting, but before weeds are 1 5 inches high. This split application will control both quackgrass and most annual broadent and grass

Single application: Broadcast 8-8 pc. A in fall or apring. Plow 1-3 weeks tales

Precautions for all applications to corn. (1) Do not apply more than B pt. A of this product to com in any one year (2) Following harvest, plow (moldboard or disk-plow) and thoroughly till soit in fall or spring to minimize possible injury to rotational Johng seeded crops, regardless of rate used

Note for all applications to corn. Do not graze or feed forage from treated areas to kvestock for 21 days following application

ROTATIONAL CROPS

(1) Do not rotate to any crop except corn or sorghum until the following year, as injury may occur. (2) If applied after June 10, do not rotate with crops other than corn or sorghum the next year, as crop syury may occur. (3) if used at a rate higher than 6 pt/A or equivalent band application rate, a crop of untreated corn or sorghum should precede the next rotational crop. (4) In the figh Plains and intermountain areas of the West where rainfall is sparse and erratic or where impation is required, use only when com or sorphum is to follow com or sorphum or when a crop of untreated com or sorghum is to precede other rotational crope. (5) its eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans if the rate applied to corn or sorghum was more than a 4 pt A or equivalent band application rate, as soybean injury may occur (6) Injury may occur to soybeans planted in north-central and northwest IA, south-centr HIT MM, northwest NE, southeast SD, and other areas the year following application on sofs having a calcareous surface layer. (7) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application, as mury may occur.

SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types).

Apply before planting, at planting, or after planting. See Corn section for weeds controlled Preplant (Broadlest and grass control)

Broadcast in spring after plowing at rate in Table 3. Apply before, during, or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For beet results, apply within two weeks prior to planting.

Preemergence (Broadest and grass control)

Apply during or shortly after planting, that prior to weed or crop emergence at rate in Table 3.

TABLE 3 Preplent and Preemergence for Broadless and Grass Weed Control in Sorghum*			
Soil Texture	Organic Matter	Broadcast rate/A	
COARSE Sand, Loamy sand, sandy loam, sandy city loam	Any ierel	DO NOT USE (except for	
MEDIUM AND FINE Sile trivin, city foam, clay	Less than 1%	preemergent use on bedde acrohum in AZ and CA as indicated below)	
	115%	3.2-4 pt-	
	More than 1.5%	4-4.75 pt.	

*Do not apply preplant in AL. AR, FL, GA, LA, MS, NC, NM, SC, TN, and TX. Do not apply preemergence in NM, OK and TX, except at northeast OK and the TX Gulf Coast

In case of planting feature, surghum may be replanted. Do not make a second broadcast application, as injury may occur. If originally applied in a bend and sorghum is market in turneated row middles, this product may be applied in a bend to the second relating.

Preumergence broadleaf control in furrow impated bedded sorghum (AZ and CA only) For preemergence control of troudlest weeds, including groundcherry, tembsquarters, morningglory, mustard, pigweed and purisane, broadcast 1 6-2.4 pt/A. Apply Bright Bod preparation, during or after planting, but before sorghum and weeds emerge, and before the \$131 furnow irrigation. Follow with several arrigations to thoroughly worfall \$19. Use lower rate on posses textured soil and soil low in organic matter, use higher rate engine-textured soil and soil high in organic matter.

•• Precautions for preemergence application to furrow impated bedding account grown and a single A. To svoid possible sorghum injury, do not use on sand or juarny sand soil or direcoliginum plented in the furrow. Application to sorghum growing on alluli sorghup and cute, fills or erosions have exposed calcarsous or alkali subsoil may cause crop injury. Do not replant corphum for 8 months following application. Once may be pluried immediately

Postemergence (Broadlesf and grass control) Apply at rate in Table 4 before weeds exceed 1.5 inches inheight. Apply up to "close-in Sc4 Texture Sand or loamy zand Sandy loam Sat loarn to san by clay loam Otton and Pullman clay soi Sitty clay toam and finer textured \$04

Postemergence bro Broadcast 2 4 pt/A for control of ambequarters, mustard, pigweed. pigwed and tambsquarters reach 6 d height. In CO, western KS, NM, O scrahum is 6-10 inches in height. b reaches the 3-lest stage. Add emuts menut applications. Add of concernecessary di**ali weeds are not co**ntro

autions for applications with er applications with emulsifiable of or of

Postemeroence troadiest cor regions of AZ and CA only). Broadcast 2.4 pt plus 0.75-1 5 pt before weeds reach: 1.5 inches in hi

Precautions for all applications to so to cause excessive concent Do not apply to furrow planted eorg marks or seed furror's before an caused by minor element deficient in crop injury (3) Following his vest fall or spring to minimize possible # : (4) Injury may occur if both this herb insecticide are used.

NOTE. Do not graze or feed forage:

ROTATIONAL CROPS See "Rotional Crope" at end of Corr

CHEMICAL FALLOW **

Wheat-Songhum-Fallow:
The presiment controls annual br follow/forvorthum crop when grow Apply () of to wheat shable from them with a sweep plow ortothers styling with a planius leaving a shafow furtow क **प्रसिद्ध रूप्टर्काल कारावर्गका है वी**जी र स

sequence must be followed: (3) Du (

Note. Do not graze or feed forage in those on this label within 18 months

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 it apply more than 8 pt/A of this product to com in entoard or disk-plow) and thoroughly till soil in fall or soring-according crops, regardless of rate used

r feed forage from treated areas to investock for 21

or sorphum until the following year, as many may are with crops other thin com or sorghum the next at a rate higher than 6 pt/A or equivalent band Cohum should precede the next rotational crop. (4) a West where ranjfall is sparse and ematic or where c onum is to follow com or sorghum or when a crop cities rotational crops. (5) in eastern parts of the rotate to soybeans if the rate applied to corn or mend application rate, all soybean injury may occur with-central and northwest IA, south-central and »-d other areas the year following application on Do not plant sugar livets, tobacco, vegetables s, or small associat legumes and grasses the year

H HYBRIDS (Grain and Forage Types):

rising. See Compaction for weeds controlled

hole 3. Apply before, during, or after final seedbed. witten, avoid deep incorporation. For best results,

to weed or crop entergance at rale in Table 3

B. E. 3 gence for Broadless introl in **Sorgh**um

~c Matter	Broadcast rate/A
et .	DO NOT USE (except for
ยลด 1%	premergent use on bedded sorghum in AZ and CA as indicated below)
bis	3.2-4 pt.
tnan 1.5%	4-4.75 pt.

MS, NC, NM, SC, 1N, and TX. Do not apply east OK and the TX Gulf Coast

rentanted. Do not stake a second broadcast used in a bend and sorghum in reclaricities of me bend to the Sec 300 Barting.

ed bedded scriptum (NZ and CA only). ds, including groundtherry, lembaqui broadcast 1.6-2 4 pt/A Apply Bige Big rghum and weeds emerge, and below the trial to thoroughly werful fall. Use lower rate on use higher rate truthe-textured sor and sol •••••

.. . w engeted be**ਹੋਵਾਵ ਵੈ**ਹੁਨੀਪਲ ਰੂਪਲੀ ਜੋੜੈਂਟੀ ਜਿਉ se on send or loamy sand soll or difficilyfluin A rig on altub sõjugujujug cuts, täls or arosions 2050 ongo injurgi. Do not replant sorgitum for 8

is in height. Apply up to "c7000-li-

TABLE 4 Postemergence Broadleaf and Grass Weed Control en Sorghum Minmum sorghum Breadcastrate A Soi Texture height at treatment Sand or loamy sand DONCTUSE See directions for broadleaf Sandy toam weed control below 4-4 75 pt Completely emerged Sit loam to sandy diay loam 4-4 75 pt At least 6 inches high Otton and Pullman clay sof Sity clay loans and finer Completely emerged

idani control with emutativitie oil or oil concentrate in water:

Broadcast 2.4 gUA for control of troadest weeds, including arrant morningglory, cocidebut, lambsquarters, mustard, pigweed, ragweed, smartweed, and wild buckwheat. Apply before pigwed and tembequarters reach 6 inches in height and before all other weeds reach 4 inches in height. In CO, western KS, MM, OK, TX, and the desert regions of AZ and CA, apply when accomum is 6-10 inches in height, but before boot stage. In all other areas, apply after sorghum reaches the 3-leaf stage. Add emulsifiable oil at 1 gal: A for ground applications and 0.5 gal/A for serial applications. Add oil concentrate at 1 qt'A for ground applications. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

Processions for applications with emulatiable of or oil concentrate in water. See "Processions for applications with emulsidable oil or oil concentrate in water" in Comsection.

Postsmergence broadest control with surfactant (CO, western KS, NM, QK, TX, and desert regions of AZ and CA only)

Broadcast 2 4 pt plus 0 75-1 5 pt of surfactant/A after sorghum reaches 6 inches in height, but before weeds reach 1.5 inches in height. Apply only on sandy loam and finer textured soil.

Precautions for all applications to sorghum: (1) Heavy rain immediately following application tends to cause excessive concentrations of harbicide in seed furrow, resulting in possible crop injury. Do not apply to furnor planted sorghum until herows are leveled (plowed-in). Level deep planter marks or seed furrows before application. (2) Application to sorghum growing under stress caused by minor element deficiency or to sorphom growing on highly calcineous soils may result in crop injury. (3) Following harvest plow (moldboard or disk-plow) and thoroughly till the soil in the tell or spring to minimize possible injury to rotational spring-seeded crops, regardess of rate used. (4) Injury may occur if both this herbicide, preplant or preemergence, and an at-plenting systemic insacticide are used.

NOTE: Do not graze or feed forage from treated areas for 21 days following application.

POTATIONAL CROPS

See "Rotional Crope" at end of Com section

CHEMICAL FALLOW ..

wind Songhum-Fallow.

The tripliment controls annual broadlest and grass weeds following wheat harvest and in the stripliment controls annual broadlest and grass weeds following wheat harvest and in the stripliment controls annual broadlest and grass weeds following wheat harvest and in the

fallouting worthern crop when grown under mirroum blage.

Apply ft pt. to wheat Subblammediately following wheat hervest. If weeds are prethem with a sweep plow originar-builtable inclement after application. Plant sortigum into wheat stigate me lobowing spring with minimum disturbance of the soil. Use a surface planter or a plan. It leaving a shallow furrow: If weeds are present at planting, remove them with a sweep plow or processing in the processing of the planting. 4 4 4

ons (1) the out-soughteem or finer textured sof (2) t sequence must be tollowed: (3) \$5 not soply following sorphum harvest

Note: Do not craze or feed for any from treated area to investock. Do not plant any crop other than Shope on this label within 18 months following treatment

RANGELAND

To control certain weekis, including cheatgrass (downy brome, chass), common (as agr) briomwood. Hitle barley, medusahead, sagewort, and tumble mustard. Liee lower rate where cheatgrass is major problem weed, use taght rate for other weeds

For ground applications, use a minimum of 10 gal of water-4. For aerial applications, use a minimum of 5 gal of water/A. See "Application Procedures" for additional information

Establishment of perennial range grasses in West (CA. ID, NV, OR, UT WA)

Apply \$ 6-2 pt/A in fall after rams begin but before ground freezes. Perennial range grass may 1 the seeded when run beguns the next fad following treatment. Plant in deep furrows such as those made by a deep furrow rangeland drift. Treated areas may be grazed 7 months efter seeding However, to provide sufficient time for establishment of desirable range grasses, treated grass should be grazed until the fall following seeding

Renovation of existing stands of perennial range grasses

Central Great Plains (CO, KS, MT, NE, NO, SD, WY) Apply 1-2 pt/A in fell before ground treezes

Southern Great Plains (OK, TX) Apply 2 pt/A in spring before April 30

West (CA. 1D. NV. OR, UT, WA). Do not graze area to be treated for 6 months prior to application. Apply 1-1 5 pt/A by ground equipment in fall before ground freezes. Bluegrass and intermediate wheetgrass may be injured by this product at recommended rates.

NOTE . Do not cut or feed range grass tury. Do not graze treated areas within 7 months tollowing fall application or 3 months following spring application. Apply only once per year.

WARM SEASON PERENNIAL FIANGE GRASSES-MIDWEST.

Switchgress and Big Bluestern

For control of many arrusal broadlest and grass weeds including cheatgrass, foxially (green, and yellow), lambequarters, pigweed, regweed, Smartweed, and velveties!

For ground application use a minimum of 15 gal, of emics/A.

Use only on loam, silt loam, silty city loam, clay loam, and silty city soils with at least 1 percent organic matter.

New seeding: Apply 2 gt/A after planting but before weeds emerge. Prepare a good firm ¹¹ seedbed: Plant ¹⁵ such deep with a grassland drill (preferred method) or a conventoral drill. If a entional chill is used on prepared seedbads, remove all tension from the disk openars. For best results, cultipack or roll after planting. Clip weeds that escape in July of August. Avoid clipping switchgrass or big bluestern seedings.

shed stands: Apply 2 ct/A in April or early Mary, before weed emergence NOTE: Do not cut for fray. Do not graze treated areas within 4 months following epolication at seeding or 3 monits following application to established switchgrass or big bluestem. Treat only

once per year.
Rotational crups: See "Rotational crups" in Com section.

SUGARCANE

For control of many annual broadlest and grass weeds, including amerantis, tratigrass, fremeed. Flora's painthrush, toxtais, junglerice, and urregrass: Broadcast 2-4 qt. et 20-50 gdl of water/A for adequate coverage of the soil surface at time of planting or responsing, but before on emerges. One additional application may be made over cane as it emerges, and two additions applications may be made interine after emergence as directed aprays.

For control of emerged pulltary weed (Florida only): Apply 0.8-1.2 pt. in a least 40 gill of water/A #5 a directed spray. Add 2 or. of surfactant for each 50 gal. of spray. Thoroughly cuver weed foliage.

Processions (1) Do not apply after "close-in." (2) Do not apply more than 10 qt/A to any one crop.

For control of alexandergrass, large crabgrass, pelitory (artifery weed, and apmy arraratif), use

one of the following methods at plenting or rationing (Florida only) 1. Apply 4 of 'in 20-50 gal of water/A, pré-vijargence, broadcast or banded. Follow with one or two broadcast or banded over-the-top applications as needed, postemergence to sugarcane

and weeds, at 2 or in 20-50 gal of water/A. Treat before weads exceed 1.5 inches in height 2. Apply 1-3 times as needed, at 2 or in 20-50 gal. of water A either broadcast or banded over-the-top, posternergence to sugarcane and weeds. Treat before weeds exceed 1.5 inches in

DOUGLAS FIR. GRAND FIR, NOBLE FIR, WHITE FIRE, LODGEPOLE PINE. PONDEROSA PINE, AND SCOTCH PINE

Annual broadest and grass weed control. Broadcast 2-4 of in 20-40 gat/A between fall and early spring white trees are dominant or soon after transple

quickgrass is more than 1 5 inches tall

Preclutions: (1) Do not graze treated areas: (2) the right apply to seedbeds: (3) Apply only once per year 🗽

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