

21-A

HERBICIDE

GENERAL INFORMATION:

Herban® 21-A will control susceptible weeds in sorghum when applied according to directions. Because Herban 21-A kills germinating weeds only after root absorption, rain or sprinkler irrigation is needed for good results. Best results are achieved when this happens within a week or two after application. Where dry weather conditions prevail, pre-plant incorporation of Herban 21-A will result in improved weed control.

WEED CONTROL:

Herban 21-A controls annual weeds and grasses such as:

Grassy Plants

Barnyardgrass
Bracharia
Coloradograss
(Harrahgrass)
Crabgrass
Foxtail
Goosegrass
Panicum
(Summer and Fall)

Broad-leaved Weeds

Chickweed
Cocklebur
Florida pusley
Lambsquarters
Morningglory
Pigweed
Purslane

Weeds of intermediate susceptibility—particularly at lower rates—are Ragweed, Jimsonweed, Velvetleaf, and Smartweed. Control of deep-germinating Morningglory and Cocklebur requires good rainfall or sprinkler irrigation to move the herbicide to their roots.

Herban 21-A will not control perennial weeds such as Johnsongrass, Russian knapweed, or Field bindweed.

DIRECTIONS FOR USE:

EQUIPMENT: GROUND APPLICATOR—A sprayer designed for low-volume applications is recommended. Strainers finer than 50 mesh should not be used. This formulation is a wettable powder, and the spray mixture must be constantly agitated. Bypass agitation is satisfactory with the pump maintaining pressure of 10-60 pounds. For pre-emergence band applications, use nozzle tips giving flat, non-tapered spray pattern.

Recommended spray volumes are 11-20 gallons per acre for pre-plant and pre-emergence broadcast, and 20-30 gallons per acre for post-emergence broadcast applications. Use appropriate amounts for band applications.

HOW TO MIX THE SPRAY:

Thoroughly slurry or mix Herban 21-A with water.

For best results apply and incorporate Herban 21-A no more than 5 days before planting. Application should be made to a freshly worked soil surface free of vegetation.

Apply 3 to 3½ pounds of Herban 21-A wettable powder broadcast per acre. Use a proportional amount for band treatment, depending on width of band.

PRE-EMERGENCE WEED CONTROL IN SORGHUM:

Apply Herban 21-A to soil surface, either broadcast or as a band treatment at time of planting but before sorghum emerges. Use on loam, clay loam, clay heavy or dark prairie soils, or soils with medium-to-high organic content. DO NOT use on sandy loam or loam soils with low organic content.

Apply 2½-3½ pounds of Herban 21-A wettable powder broadcast per acre. Use a proportional amount for band treatment, depending on width of band.

POST-EMERGENCE WEED CONTROL IN SORGHUM:

Apply 2½ to 3½ pounds Herban 21-A after sorghum emerges and the stand is well established but before weeds are more than 2 inches high. If brace roots have not been formed and weeds are not visible at the time of application, incorporate with a rotary hoe or rolling cultivator within 2 days. If application is made after the brace roots have formed and weeds are present, add 0.5% surfactant or wetting agent by volume in the spray mixture (1 quart of surfactant in 50 gallons of spray). DO NOT add oil to the spray mixture. DO NOT apply post-emergence if pre-plant incorporated or pre-emergence application has been made.

NOTICE: Under certain rainfall conditions, injury from these herbicides may occur, and risk must be assumed by the user. Do not apply Herban 21-A on sandy soils, loamy sands, or deep sands.

CAUTION: Do not graze or feed forage within 30 days after application of Herban 21-A.

PRECAUTIONS

FOLLOWING CROPS: Do not plant treated areas to any crop but sorghum, corn, sugarcane, and cotton the following year.

ACCURATE DOSAGE: Calibrate equipment and double check calculations and measurements for

when this happens within a week or two after application. Where dry weather conditions prevail, pre-plant incorporation of Herban 21-A will result in improved weed control.

WEED CONTROL:

Herban 21-A controls annual weeds and grasses such as:

Grassy Plants	Broad-leaved Weeds
Barnyardgrass	Chickweed
Brachiaria	Cocklebur
Coloradograss	Florida pusley
(Harragrass)	Lambsquarters
Crabgrass	Morningglory
Foxtail	Pigweed
Goosegrass	Purslane
Panicum	
(Summer and Fall)	

Weeds of intermediate susceptibility, particularly at lower rates, are Ragweed, Jimsonweed, Velvetleaf, and Smartweed. Control of deep-germinating Morningglory and Cocklebur requires good rainfall or sprinkler irrigation to move the herbicide to their roots.

Herban 21-A will not control perennial weeds such as Johnsongrass, Russian knapweed, or Field bindweed.

DIRECTIONS FOR USE:

EQUIPMENT: GROUND APPLICATOR—A sprayer designed for low-volume applications is recommended. Strainers finer than 50 mesh should not be used. This formulation is a wettable powder, and the spray mixture must be constantly agitated. Bypass agitation is satisfactory, with the pump maintaining pressure of 30-60 pounds. For pre-emergence band applications, use nozzle tips giving flat, non-tapered spray pattern.

Recommended spray volumes are 15-20 gallons per acre for preplant incorporated or pre-emergence broadcast and 20-30 gallons per acre for post-emergence broadcast applications. Use proportional amounts for band applications.

HOW TO MIX THE SPRAY:

Thoroughly slurry or mix Herban 21-A with water before putting it in the spray tank. Use about one gallon of water for each pound of herbicide. Fill spray tank with about half the total volume of water. Start pump to provide agitation, then pour and rinse slurred Herban 21-A into the spray tank. Add additional water to tank to desired volume, with pump circulating the mixture.

PREPLANT INCORPORATION FOR WEED CONTROL IN SORGHUM:

Apply Herban 21-A to the soil surface before planting and incorporate to a depth of no more than 2 inches, using ground-driven equipment such as a rolling cultivator, rotary hoe, or pulverizing disc. Use on loam, clay, loam clay, heavy or dark prairie soils, or soils with medium to high organic content.

band

PRE-EMERGENCE WEED CONTROL IN SORGHUM:

Apply Herban 21-A to soil surface, either broadcast or as a band treatment at time of planting but before sorghum emerges. Use on loam, clay, loam clay, heavy or dark prairie soils, or soils with medium to high organic content. DO NOT use on sandy loam or loam soils with low organic content.

Apply 2½-3½ pounds of Herban 21-A wettable powder broadcast per acre. Use a proportional amount for band treatment, depending on width of band.

POST-EMERGENCE WEED CONTROL IN SORGHUM:

Apply 2½ to 3½ pounds Herban 21-A after sorghum emerges and the stand is well established but before weeds are more than 2 inches high. If brace roots have not been formed and weeds are not visible at the time of application, incorporate with a rotary hoe or rolling cultivator within 2 days. If application is made after the brace roots have formed and weeds are present, add 0.5% surfactant or wetting agent by volume in the spray mixture (1 quart of surfactant in 50 gallons of spray). DO NOT add oil to the spray mixture. DO NOT apply post-emergence if a preplant incorporated or pre-emergence application has been made.

NOTICE: Under certain rainfall conditions, injury from these herbicides may occur, and risk must be assumed by the user. Do not apply Herban 21-A on sandy soils, loamy sands, or deep sands.

CAUTION: Do not graze or feed forage within 90 days after application of Herban 21-A.

PRECAUTIONS:

FOLLOWING CROPS—DO NOT plant treated areas to any crop but sorghum, corn, or sugar cane until the following year.

ACCURATE DOSAGE—Calibrate equipment and double-check calculations and measurements for preparation of spray liquid. Shut off spray when turning, stopping, or slowing tractor.

PREVENT INJURY TO OTHER CROPS OR PLANTS—Do not use Herban 21-A on or near lawns, flowers, or other desirable plants. Prevent the drift of spray to other areas. Do not contaminate water in irrigation ditches or domestic water supplies. Do not store Herban 21-A in contact with fertilizers, seeds, insecticides, or fungicides.

CLEANING SPRAYER—Flush all parts of sprayer with several charges of fresh water promptly after job is finished. Parts such as nozzle tips and screens should first be removed and washed separately.

DESTROY BAG—Destroy bag by burning. Do not reuse for any other purpose.

NONWARRANTY:

Hercules warrants that this herbicide conforms to the chemical description on its label. When used in accordance with label directions under normal conditions, this herbicide is reasonably fit for its intended purpose. Since timing, method of application, weather, plant and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.