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Finesse®

HERBICIDE



DRY FLOWABLE

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Preemergence To Winter Wheat

Apply 0.3 to 0.4 oz/A in the fall as a preplanting preemergence treatment. Rainfall is required to move 'Finesse' into the weed root zone before weed seed is germinated and develops an established root system. Do not apply more than 0.4 oz/A as a preemergence application.

Preemergence applications of 'Finesse' are not recommended where organophosphate insecticides (such as disyston, etc.) have been used as an in-furrow treatment as crop injury may occur.

NOTE: Do not apply preemergence to late fall plantings when cold and/or dry weather can cause delayed seedling emergence and/or stress to seedlings; and under these conditions wait until crop has emerged and is showing good vigor before making a postemergence treatment.

When environmental conditions cause delayed seedling emergence and/or poor seedling vigor, delay posttreatment irrigation until after the wheat is actively growing. A minimum of 1 in. showing good vigor, or injury to the crop may occur.

Do not apply preemergence to spring wheat.

DO NOT APPLY PREEMERGENCE TO BARLEY AS CROP INJURY WILL OCCUR

Postemergence To Wheatgrass On Acreage Enrolled In The Conservation Reserve Program

Apply 0.3 to 0.5 oz/A in the fall or spring anytime after wheatgrass is in the 3 to 4 leaf stage. For best results, apply preemergence to weeds or early postemergence when weeds are actively growing. Add surfactant at the rate of 1 to 2 quarts per 100 gals for applications made postemergence to weeds.

To control weeds that germinate after treatment, rainfall must move 'Finesse' into the weed root zone before weed seeds germinate and develop an established root system. Spring applications in low rainfall areas may not receive enough rainfall after treatment resulting in poor residual weed control.

Note: Whenever wheatgrass is planted in a mix with other grasses, limit first use of 'Finesse' to a small area. Injury to other grasses is not evident in 14 days after treatment. A large acreage can be treated.

'Finesse' is not recommended for mixed plantings that include legumes as injury to the legumes may occur.

Split Applications To Winter Wheat and Winter Barley

■ Winter Wheat

'Finesse' can be applied fall preemergence plus spring postemergence or fall postemergence plus spring postemergence.

■ Winter Barley

'Finesse' can be applied fall postemergence plus spring postemergence.

When using a split application, do not use less than 0.2 oz/A per treatment or more than 0.3 oz/A per treatment and do not exceed 0.5 oz/A per crop. Follow all instructions in the Preemergence and Postemergence directions for use.

Postemergence To Winter/Spring Wheat, and Winter/Spring Barley

■ Winter Wheat/Winter Barley

Apply 'Finesse' 0.3 to 0.5 oz/A in the fall or spring anytime after crop is in the 2-leaf stage — but before boot stage. DO NOT apply during boot stage or ear, heading as crop injury may occur.

Do not make an early postemergence treatment to late seeded wheat or barley as the combined effect of herbicide stress plus cold weather and/or moisture stress could cause crop injury. Delay making a postemergence treatment to late seeded wheat or barley until crop has started to tiller.

Fall applications of 'Finesse' are not recommended where organophosphate insecticides (such as disyston, etc.) have been used as an in-furrow treatment as crop injury may occur.

■ Spring Wheat/Spring Barley — East of Cascades Only

Apply 'Finesse' 0.3 to 0.5 oz/A anytime after crop is in the 2-leaf stage through 2nd joint stage. DO NOT apply once the flag leaf is visible as crop injury may occur.

To avoid the risk of cold weather related crop injury, apply 'Finesse' when good growing conditions (adequate soil moisture, daily high temp. of 50°F or more) are expected to continue until crop has started to tiller.

Do not apply prior to tillering when cold and/or dry weather can reduce seedling vigor making crop more vulnerable to the combination of herbicide and weather stress. The combined effect of herbicide plus stress from cold and/or dry weather can result in temporary yellowing or crop injury (yield reduction).

Do not make a late fall, winter or early spring application to wheat or barley until crop is well established and has started to tiller.

Fall Application Prior To Planting Spring Wheat

Apply 'Finesse' 0.3 to 0.4 c./A in the fall to undisturbed stubble where straw is spread evenly or after cultivation to a uniform soil surface. Shallow tillage, not more than 4 in. deep, may be done after application. In the spring, use shallow tillage to prepare a seedbed. Do not moldboard plow. Fall application is not effective for Canada thistle emerging the following spring.

Do not plant spring barley, Wampum variety of spring wheat or spring oats after a fall application of 'Finesse'.

Post-harvest Burndown Of Russian Thistle

Apply 'Finesse' at 0.2 to 0.5 oz/A. Time application 3 to 10 days after harvest when Russian thistle is actively growing. Mature plants or plants covered with dust may not be adequately controlled. For best results, apply 'Finesse' when temperatures exceed 70°F. Thorough coverage is essential. Apply 'Finesse' in 3-5 gpa by air or 10-25 gpa with ground equipment. Surfactant (80% active ingredient or higher) should be added to the spray solution at the rate of 2-3 quarts per 100 gallons. Tank mixtures of 'Finesse' and other herbicides may not be as effective as 'Finesse' alone for this use.

NOTE: 1. Results may not be satisfactory if Russian thistle plants have been previously treated with another herbicide.

2. Because different types of Russian thistle plants may vary in susceptibility to 'Finesse' treatment, it is recommended that growers limit their first use to a small area prior to adoption as a field practice.

Reduced Tillage Fallow (Preceding The Planting Of Cereal Grains)

Use 0.3 to 0.5 oz/A. Application should be made before broadleaf weeds are 2 in. tall or 2 in. across. If weed control is unsatisfactory because weeds were too large at application, or if weeds grow due to insufficient rainfall activation of 'Finesse', a shallow cultivation is recommended. Rainfall following treatment to wet soil 2-3 in. deep is necessary to move 'Finesse' into the weed root zone before 4-6 seeds germinate or existing weeds grow beyond the seedling stage. Several options are available for use of 'Finesse' to reduce tillage in fallow.

1. Spring (in-crop prior to fallow) — Apply 'Finesse' in the spring before wheat, spring oats or barley are in the boot stage. This treatment is effective for post-harvest broadleaf weed control but may not provide weed control into the following spring.

2. Fall (post-harvest) — Apply 'Finesse' preemergence or early postemergence to the first flush of germinating weeds after harvest.

3. Spring (during fallow) — For best results, apply preemergence early in the spring to ensure adequate rainfall activation prior to weed seed germination.

Postemergence treatments should be applied just after most seedlings have emerged and are actively growing. When weed emergence is uneven, control of weeds that germinate after treatment will be dependent on the timing and amount of rainfall following application. Sufficient rainfall is needed to move 'Finesse' 2-3 in. deep into the weed root zone before weeds that germinate after treatment can develop an established root system.

"Finesse" Plus "Roundup" or "Landmaster"

'Finesse' 0.3 to 0.5 oz/A plus Roundup® or Landmaster® applied as a tank mix is recommended for the control of emerged populations of broadleaf and grassy weeds. For best results, apply this mixture to young, actively growing broadleaf weeds less than 2 in. tall or 2 in. across while grassy weeds are 6 in. tall or less. 'Finesse' plus Roundup® or Landmaster® should be applied in 5-10 gpa with ground equipment using flat fan nozzles or 3.5 gpa by air. If broadleaf and grassy weed stages are not appropriate for tank mix application, 'Finesse' and Roundup® or Landmaster® should be applied separately as recommended for each product.

Follow all use instructions, warnings and precautions and surfactant recommendations on the Roundup® and Landmaster® labels.

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WEED CONTROL/USE RATE TABLE

Use Finesse® spray preparations with instructions under "Specific Weed Problems" section for all weeds marked with *.

Weds Controlled at 0.3 oz/A	Weds Suppressed* at 0.3 to 0.6 oz/Acre	Acre Treated per 8 Ounce Container
Annual Bluegrass	Annual Bluegrass*	At the 0.3 oz/A rate an 8 oz container will treat 60 acres
Blue mustard	Black poppy	
Broadleaf dock	Bindweed	
Buckwheat	Crotonweed	At the 0.4 oz/A rate an 8 oz container will treat 45 acres
Bur Docks	Dwarf gromwell	
Bur buttercup	Groundsel	
Cleavers	Knotweed (prostrate)	
Chickweed	Knotweed	
Common lambsquarters	Lambsquarters	
Common purslane	Lettuce	
Common ragweed	Mayweed	
Common sunflower	Milkweed	
Common vetch	Pennycress	
Common waterhemp	Pigweed	
Common yellowwood	Prickly lettuce	
Common yarrow	Ragweed	
Crabgrass	Redroot pigweed	
Cropweed	Redstem filaree	
Curly dock	Shepherdspurse	
Dandelion	Squash vine	
Devil's claw	Summer cress	
Evening primrose	White clover	
Fall panicum	Wild buckwheat	
Fall panicum grass	Wild carrot	
Fall panicum grass	Wild mustard	
Fall panicum grass	Wild radish	

*See "Specific Weed Problems" section for details on timing and amount of application required for these weeds.

For best results, apply Finesse® spray preparations to young, actively growing weeds.

SPECIFIC WEED PROBLEMS

Annual Bluegrass Annual Ryegrass. For best results, apply Finesse® spray preparation to ryegrass, 1 to 1.5 inches tall or to annual bluegrass, into the weed root zone (0 to 12 inches) at 0.3 oz/A with Karmex® Herbicide Plus 0.1 to 0.2 lbs/A per acre to increase control. See "Tank Mixtures" for additional details.

Bedstraw. Use the higher rate of Finesse®. For postemergence treatments, apply before bedstraw is greater than 2 to 3 inches tall and use the 2 qts/100 gallons rate of surfactant.

Canada Thistle. At pre-emergence, plus surfactant (2 qts/100 gallons) after the majority of thistles have emerged and while they are small (asette stage to 4 to 6 leaf). But actively growing. A single application will effectively inhibit the activity of Canada thistle to compete with the crop. For maximum long term effect, yearly treatment may be required.

Corn Gromwell. Where corn gromwell is a major weed problem, use the higher rate of Finesse® or tank mix Finesse® with Karmex®. See "Specific Tank Mixtures" for additional details.

Flaxweed Tansymustard. For best results with postemergence applications, apply Finesse® at 0.3 to 0.5 oz/A in a tank mixture with 2.4-D ester or amine when weeds are actively growing 1 to 2 feet. See "Tank Mixtures for Specific Weed Complexes" section of label. If weeds are inactive due to adverse weather conditions (cold, dry weather), delay application until active growth resumes. For best results with fall applications, Finesse® should be applied at the highest recommended rate to provide adequate residual activity.

Prostrate Knotweed. For best results, apply preemergence to knotweed in the fall. For postemergence treatments, apply Finesse® plus surfactant to small (no more than 4 true leaves) actively growing plants. For maximum postemergence control, knotweed plants should remain actively growing for 3 to 4 days following application.

Russian Thistle. Fall applications provide best results. Spring applications should be made postemergence to Russian thistle just after seedlings have emerged and are actively growing and 1 to 3 inches tall at temperatures exceed 70°F. Use surfactant at 2 qts/100 gallons. Thorough coverage is important. Re-treat immediately after application may wash Finesse® off weed foliage resulting in poor weed control. A minimum of 1 inch of rainfall within 7 to 10 days is required to control thistle plants that emerge following a 1.5 storm per application of Finesse®. To improve postemergence control under adverse growing conditions, a tank mixture of Finesse® at 0.2 to 0.3 oz/A + 2.4-D amine or ester at 1.8 to 1.4 pounds active ingredient per acre is recommended. See "Specific Tank Mixtures" section of label.

Vetch. See higher rates of Finesse® and the 2 qts/100 gallons rate of surfactant and apply before vetch is greater than 4 inches long.

Wild Radish. For preemergence applications will provide best results.

TANK MIXTURES FOR SPECIFIC WEED COMPLEXES

DuPont Lexone® DF "Hericide Plus Finesse". Where broadleaf weeds, annual bluegrass or bermuda grass are the main problems, a fall application of Lexone® DF at 1.3 to 1.5 A with Finesse® at 0.3 to 0.4 oz/A is recommended for best results. Apply after wheat or barley is well tilled and has a well developed root system established throughout the field. A 1.5 to 2.5 inch rainfall is needed within 1 to 2 weeks of application. Follow all restrictions on the Lexone® DF label.

DuPont "Karmex" Herbicide Plus "Finesse". Where annual bluegrass, annual ryegrass, corn gromwell, green foxtail, Johnson grass, and wild buckwheat are the main weed problems, apply 1.0 to 1.2 lbs/A of Karmex® plus 0.3 to 0.4 oz/A Finesse®. Apply preemergence or early postemergence to actively growing weeds less than 2 inches tall or 6 inches. 1.2 to 1.5 inch of rainfall is needed within 1 to 2 weeks after application. Follow all restriction on the Karmex® label.

2.4-D (amine or ester) Plus "Finesse". Tank mixtures of Finesse® plus 2.4-D are recommended when weeds are large and/or stressed due to adverse conditions (low temperature, low soil moisture, dry, dusty field conditions) or when dense crop canopy makes it difficult to obtain thorough spray coverage.

Use Finesse® at 0.3 to 0.5 oz/A plus 1.8 to 1.4 lb active ingredient 2.4-D ester formulations of 2.4-D have provided best results. Surfactant may be added at 1 qt/100 gallons of spray; however, the addition of surfactant may increase the chance of crop injury.

Finesse® should be mixed in water with the agitator running prior to adding 2.4-D. Read and follow all label instructions on timing, precautions and warnings for these herbicides prior to using these tank mixtures.

IMPORTANCE OF APPLICATION TIMING RELATIVE TO GROWING CONDITIONS AND RAINFALL

How Growing Conditions Affect Weed Control:

Applications made postemergence to weeds are most effective when Finesse® is applied to young, actively growing weeds and an open crop canopy allows thorough spray coverage. Warm, moist growing conditions promote active weed growth and enhance the activity of Finesse® by allowing maximum foliar uptake. If cold, dry conditions exist, delay postemergence treatments until weather conditions promote active weed growth. Avoid postemergence applications to weeds which are inactive due to adverse weather conditions. Weeds hardened off by cold weather or drought stress may not be controlled.

How Growing Conditions Affect Crop Safety:

Pre-ripened cold weather (above maximum temperatures below 50°F) while crop is in seedling stage (1 to 5 leaf) can cause crop injury following either a preemergence or postemergence treatment.

To avoid the risk of cold weather related injury, apply Finesse® when good growing conditions are expected to continue until crop has started to tiller.

Rainfall After Treatment

Rainfall after treatment will affect Finesse® performance whether applied postemergence or preemergence to weeds.

Postemergence treatments control or suppress weeds primarily through foliar uptake. Rainfall within 2 weeks after application may increase the control by Finesse® on some hard to control weeds (such as corn gromwell, flaxweed, tansymustard).

Rainfall immediately after treatment can wash Finesse® off weed foliage and result in reduced weed control effectiveness. Do not make postemergence applications to weeds when rainfall is occurring or threatening.

For best preemergence results, it is important to apply Finesse® when you can expect at least 1 to 2 inches of rain or sprinkler irrigation to move Finesse® into the soil profile before weed seeds germinate or develop an established root system. Weeds that germinate after treatment but don't develop an established root system before rainfall moves Finesse® into the weed root zone may not be controlled.

When weed emergence is uneven, control of weeds that germinate after treatment will be dependent on the timing and amount of rainfall following application. Sufficient rainfall is needed to move Finesse® into the weed root zone before weeds that germinate after treatment can develop an established root system. When favorable growing conditions exist, rainfall may be needed within a few days after treatment.

SPRAY PREPARATION/PRODUCT MEASUREMENT/SURFACTANT

Mix the proper amount of Finesse® into the necessary volume of water in the spray tank with the agitator running. Continuous agitation is required for uniform mixing and application.

Use Finesse® spray preparations soon after mixing. If spraying is delayed, thoroughly agitate before using.

MEASUREMENT. The Finesse® volumetric measuring cylinder is to be used only as a guide, as the degree of accuracy varies by plus or minus 10%. For more precise measurement, use scales calibrated in ounces.

SURFACTANT. Use a surfactant if at least 80% active ingredient in postemergence application to weeds. Compare with timing and/or foliar activity of Finesse®. Add surfactant at 2 qts/100 gallons spray. Use as the last added ingredient. Higher rates of surfactant (up to 1.5 times) are acceptable when using low rates of Finesse® and when spraying some weed species (see "Specific Weed Problems" section). Antifoaming agents may be needed.

LIQUID FERTILIZER TANK MIXTURES

LIQUID FERTILIZER may be mixed with other liquid fertilizers or water in either a separate tank or the same tank. The addition of fertilizer to the tank will not affect the performance of Finesse. However, if the fertilizer is added to the tank after mixing Finesse, it may reduce the effectiveness of Finesse.

CAUTION: Do not mix Finesse with any liquid fertilizer containing ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

TANK MIXTURES WITH OTHER HERBICIDES, INSECTICIDES AND FUNGICIDES

Other Herbicides Finesse may be mixed with most herbicides except those containing 2,4-D, 2,4,5-T, paraquat, glyphosate, dicamba, paraquat, paraquat-like compounds, and other herbicides which contain chlorophenoxy acids. When mixing Finesse with other herbicides, wait at least 10 minutes before adding the other herbicide. See separate DuPont Bulletin for more information.

Insecticides Finesse may be mixed with most insecticides except those containing organochlorines, however, under certain conditions, though Finesse does not affect the insecticide, it may reduce its effectiveness. Finesse may reduce the effectiveness of phosphate sealants, such as malathion, diazinon, etc., may prevent effective control of certain insects. If symptoms of crop injury occur 14 days after treatment, balance of acreage of the treated field should be treated again with another phosphate insecticide such as diazinon, ester, and/or malathion. Follow treatment instructions for each insecticide.

Fungicides Finesse may be mixed with most fungicides except those containing 2,4-D, 2,4,5-T, paraquat, glyphosate, dicamba, paraquat-like compounds, and other herbicides which contain chlorophenoxy acids.

SPRAY EQUIPMENT AND SPRAY VOLUME

SPRAY EQUIPMENT Finesse may be applied by ground or aerial spray equipment. The following spray equipment arrangements are recommended:

GROUND APPLICATION For ground spraying, use flat fan nozzles. For flat fan nozzles, do not use less than 10 inches of overlap of nozzle spray pattern.

AERIAL APPLICATION For aerial spraying, use flat fan nozzles. For flat fan nozzles, do not use less than 10 inches of overlap of nozzle spray pattern.

SPRAY VOLUME Use 10 to 12 gallons per acre. For best results, add additional information on spray volume per acre, types and arrangement of spray equipment.

SOIL MOISTURE Finesse may be applied to dry soil, but coverage is best when soil moisture is 50% to 70% of field capacity.

WIND Finesse may be applied in wind speeds up to 10 mph. Wind speeds greater than 10 mph will reduce coverage.

DRIFT Finesse may be applied in wind speeds up to 10 mph. Wind speeds greater than 10 mph will reduce coverage.

IMPORTANT

MINIMUM RECROPPING INTERVALS AND CROP ROTATION GUIDELINES

RECROPPING TO WHEAT (WINTER SPRING) AND BARLEY (WINTER SPRING)

Minimum recropping intervals are determined by soil pH. The minimum recropping interval is the time from the last application of Finesse to the next planting of wheat or barley.

Soil pH*	Use Rate Oz/Acre	Minimum Recropping Interval (Months)	
		Wheat	Barley
6.5 < pH	0.4	0	12
6.5 > pH	0.5	4	12
6.6 to 7.5	0.2 to 0.4	0	16
6.6 to 7.5	0.5	4	24
above 7.5	Do not use		

*Soil pH is to be determined by laboratory analysis using 1:1 soil/water suspension method on representative soil samples taken at 0-4" depth. Consult local extension publications for recommended soil sampling procedures.

ROTATION INTERVAL FOR PLANTING WHEATGRASS* ON CONSERVATION RESERVE PROGRAM ACRES

Soil pH**	Use Rate Oz/Acre	Minimum Interval For Planting Wheatgrass
7.0 < pH	0.2 to 0.5	2 months
7.0 > pH	0.2 to 0.5	4 months

WHEATGRASS Finesse may be applied to wheatgrass in the early stages of maturity. Finesse is not recommended as injurious to the legume. May 100 mg/l Finesse to be determined by laboratory analysis using 1:1 soil/water suspension method on representative soil samples taken at 0-4" depth. Consult local extension publications for recommended soil sampling procedures.

ROTATING TO OTHER CROPS

When rotating to any crop other than wheat, barley, or wheatgrass, wait a minimum of 22 months after the last application of Finesse, then conduct a field bioassay. A "no-kill" field bioassay means growing to maturity a test strip of the crop(s) intended for production the following year (see Field Bioassay section of label for details). Failure to follow these instructions could result in injury to subsequent crops.

For recropping flexibility, do not use Finesse on all your wheat or barley acreage.

SPRAYER CLEANUP

To avoid subsequent injury to crops other than wheat or barley immediately after spraying thoroughly remove all traces of Finesse from mixing and spray equipment as follows:

1. Drain tank, then flush tank, boom and hoses with clean water for a minimum of 10 minutes.

2. Fill the tank with clean water, then add 1 gallon chlorine bleach (containing 5% sodium hypochlorite) per 100 gallons of water. Flush solution through boom and hoses, then allow to sit for 15 minutes with agitation, then drain.

3. Repeat Step 2.

4. Nozzles and screens should be removed and cleaned separately. To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and boom.

NOTE: To reduce the amount of water required in the above procedure, see separate DuPont Bulletin - Reduced Volume Cleanout Procedure for Large Sprayers.

CAUTION: Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.



Glean® Plus

HERBICIDE

ACTIVE INGREDIENTS Chlorsulfuron
2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl]benzenesulfonamide 62.5%
Metsulfuron Methyl
Methyl 2-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]amino]sulfonyl]benzoate 12.5%

INERT INGREDIENTS 25%

U.S. Pat's 4,127,405 & 4,383,113

EPA Reg. No. 352-643
EPA Est. 352-WV-1

KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION!

Harmful if absorbed through skin or inhaled. Causes eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT
In case of contact with eyes, immediately flush with plenty of water. Get medical attention if irritation persists.
For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS
Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

IMPORTANT INFORMATION READ BEFORE USING

DuPont Glean Plus Herbicide is recommended for use in CO, KS, NE, NM, OK, SD, TX and WY on land primarily used for production of wheat and barley. Glean Plus should not be used in areas where annual crop rotations are frequently practiced as Glean Plus can remain in the soil for 2 to 3 years and cause severe injury to crops other than those listed in the Minimum Recropping Intervals and Crop Rotation Guidelines section of this label.

Before using Glean Plus carefully consider your crop rotation plans and options. For maximum rotational flexibility do not treat all your wheat or barley acres.

STORAGE AND DISPOSAL

STORAGE: Store product only in original container away from other pesticides, fertilizer, food or feed.

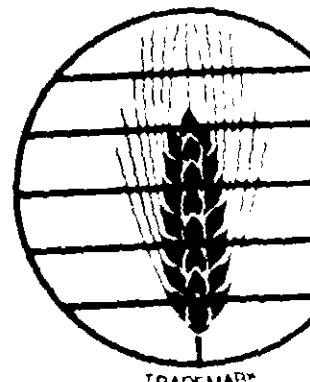
DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



Glean® P

HERBICIDE



SEE ACCOMPANYING
DIRECTIONS FOR USE

DRY FLOWABLE

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Agricultural Products Div., Wilmington,
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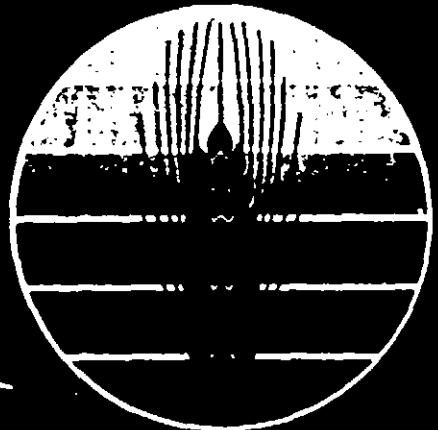
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Glean® Plus

HERBICIDE



TRADE MARK

DIRECTIONS FOR USE

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Glean Plus HERBICIDE

ACTIVE INGREDIENTS

MONSANTO 3

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INERT INGREDIENTS

12.5
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KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS — HAZARDS TO HUMANS **CAUTION!**

Harmful if swallowed, inhaled or causes eye irritation. Avoid contact with skin, eyes or mouth. Avoid breathing dust or spray. Wash thoroughly with soap and water after handling. Wash hands thoroughly before eating or smoking.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Do not induce vomiting. Get medical attention or call a poison center. If in eyes: Rinse cautiously with plenty of water for several minutes. Get medical attention.

For medical emergencies involving this product, call toll free 1-800-441-3637

ENVIRONMENTAL HAZARDS

Keep out of reach of children. Do not contaminate water by cleaning equipment and disposal of wastes.

800-441-3637
AVAILABILITY

**IMPORTANT INFORMATION
READ BEFORE USING**

NOTICE OF WARRANTY

GENERAL INFORMATION

GENERAL INFORMATION
Water availability is limited in the study area. It is classified as a semi-arid, creosotebrush steppe. Several streams flow through the area, but they are dry for most of the year. The summer temperatures are warm, often exceeding 100° F. The winter temperatures are cool, often below freezing. The soil is sandy loam, with some clay and silt. The vegetation consists of creosotebrush, yucca, and various grasses. The area is characterized by its arid climate and sparse vegetation.

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MATERIALS

Auger, 1/2" diameter
Auger, 1/2" diameter
Auger, 1/2" diameter
GRAZING

DIRECTIONS FOR USE

1. Auger 1/2" diameter
2. Auger 1/2" diameter
3. Auger 1/2" diameter

TIMING OF APPLI-

1. Pre-emergence to winter wheat
2. Pre-emergence to winter wheat
3. Pre-emergence to winter wheat

Preemergence To Winter Wheat

1. Pre-emergence to winter wheat
2. Pre-emergence to winter wheat
3. Pre-emergence to winter wheat

1990 Winter Wheat and Winter Spring Barley Program

Split Applications To Winter Wheat and Winter Wheat and Winter Barley

a. Winter Wheat

Split applications to winter wheat may be made at the two-leaf stage and again at the four-leaf stage.

b. Winter Barley

Split applications to winter barley may be made at the two-leaf stage and again at the four-leaf stage. Split applications to winter barley must be made at least 14 days apart.

Postemergence To Winter Spring Wheat and Winter Spring Barley

a. Winter Wheat/Winter Barley

Postemergence applications to winter wheat and winter barley must be made at the two-leaf stage or earlier. They must NOT be made at the four-leaf stage or later.

Postemergence treatments to winter wheat and winter barley must be applied when the plant has started to grow.

Postemergence treatments to winter wheat and winter barley must be applied when the plant has started to grow.

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Planting Wheat

DON'T

DO NOT plant wheat in fields where Russian Thistle has been present during the previous growing season. This includes fields where Russian Thistle was present at any time during the previous year.

For All Crops Except Young Wheat

DO NOT plant cereals, small grain, or other crops in fields where Russian Thistle has been present during the previous growing season.

Postharvest Burndown Of Russian Thistle

DO NOT plant cereals, small grain, or other crops in fields where Russian Thistle has been present during the previous growing season. Apply Roundup® (0.45% active ingredient or higher) spray to the soil surface of cereal grain fields immediately after harvest. This may not be sufficient to control Russian Thistle. Use Roundup® (0.45% active ingredient) plus glyphosate (0.05%) or Roundup® (0.45% active ingredient) plus paraquat (0.05%) at 20 WHS to control Russian Thistle.

Reduced Tillage Fallow (Preceding The Planting Of Cereal Grains)

DO NOT plant cereals, small grain, or other crops in fields where Russian Thistle has been present during the previous growing season. Apply Roundup® (0.45% active ingredient) spray to the soil surface of cereal grain fields immediately after harvest. This may not be sufficient to control Russian Thistle. Use Roundup® (0.45% active ingredient) plus glyphosate (0.05%) or Roundup® (0.45% active ingredient) plus paraquat (0.05%) at 20 WHS to control Russian Thistle.

For best results, apply Roundup® (0.45% active ingredient) plus glyphosate (0.05%) or Roundup® (0.45% active ingredient) plus paraquat (0.05%) at 20 WHS.

WEED CONTROL/USE RATE

10. The following table shows the estimated number of persons in each age group.

Weeds Controlled at 0.3 to 0.5 ounces acre

Weeds Controlled at 0.3 to 0.5 ounces acre		
WEED	NAME	CONTROLS
Amaranth	Red	✓
Amaranth	Yellow	✓
Bindweed	Common	✓
Buckwheat	Common	✓
Corn	Common	✓
Cowpea	Common	✓
Cotton	Common	✓
Cowpea	White	✓
Cotton	White	✓
Groundnut	Common	✓
Groundnut	White	✓
Mustard	Black	✓
Mustard	White	✓
Peanut	Common	✓
Peanut	White	✓
Rice	Common	✓
Rice	White	✓
Soybean	Common	✓
Soybean	White	✓
Turnip	Common	✓
Turnip	White	✓
Watercress	Common	✓
Watercress	White	✓
Wheat	Common	✓
Wheat	White	✓

10. The following table gives the number of cases of smallpox reported in each State during the year 1802.

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SPECIFIC WEED PROBLEMS

A. *Artemesia* (*A. vulgaris*)

Burdock

C. *Agathis*

D. *Horsetail*

E. *Knotweed* (*A. dioica*)

F. *Thistle* (*Cirsium heterophyllum*)

G. *Bindweed* (*Polygonum*)

H. *Canada Thistle* (*Cirsium heterophyllum*)

I. *Common Bindweed* (*Polygonum*)

J. *Common Nettle* (*Urtica dioica*)

K. *Common Purslane* (*Rotala*)

L. *Common Stinkweed* (*Thlaspi arvense*)

M. *Common Vetch* (*Vicia sativa*)

N. *Common Waterlettuce* (*Hydrocleys*)

O. *Common Yarrow* (*Achillea millefolium*)

P. *Common Yellow Starthistle* (*Centaurium*)

Q. *Common Yellowwood* (*Podocarpus*)

R. *Common Yucca* (*Yucca*)

S. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

T. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

U. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

V. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

W. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

X. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

Y. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

Z. *Common Zizaniopsis* (*Zizaniopsis miliacea*)

Prostrate Knotweed (*A. prostrata*) is a low-growing, prostrate weed. It is often confused with common knotweed, but is much smaller than that species. In fact, the two knotweeds should remain distinct. A. prostrata is a fast-growing annual.

Russian Thistle (*E. esculentum*) (*Cirsium heterophyllum*) (*Cirsium vulgare*) and other thistles are regular garden pests. They will grow to 6 feet tall and 3 feet wide. They can do a lot of damage to young plants. They have large, deeply lobed leaves and small, pale flowers. The flower heads are composed of many small, yellowish flowers. Russian thistle is a good example of a "weed gone wild." It is a very difficult plant to control once it becomes established. It can be controlled by hand pulling or cutting.

Vetch (*Vicia sativa*) (*Vicia villosa*) (*Vicia sativa*) (*Vicia villosa*) (*Vicia sativa*)

Wild Radish (*Raphanus raphanistrum*) (*Raphanus sativus*) (*Raphanus sativus*)

TANK MIXTURES FOR SPECIFIC WEED COMPLEXES

By D. R. Lutz, Extension Entomologist, University of Georgia

Georgia Pest Control Association

Georgia Crop Protection Association

10

**IMPORTANCE OF APPLICATION
RELATIVE TO GROWING CONDITIONS**

How Growing Conditions Affect Weed Control

Weather can have a significant effect on weed control. In general, weeds are more difficult to control during dry, warm weather than during cool, moist weather. This is because weeds are more active during warm, dry weather. Cool, moist weather slows down weed growth. Wind speed and direction also affect weed control. Wind generally吹拂 away spray droplets, reducing their effectiveness.

How Growing Conditions Affect Crop Safety

Weather can affect crop safety by influencing the timing of herbicide application. Weather can also affect the emergence of sensitive seedlings. Cool, moist weather slows down seedling emergence. Wind speed and direction can also affect crop safety by blowing spray droplets onto sensitive parts of the crop.

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4.4.14. After Treatment

After treatment, spray tank and equipment must be thoroughly cleaned. This includes the spray tank, spray gun, boom, pump, filter, and all other parts of the system. It is important to remove all residues from the spray tank and equipment to prevent clogging and damage. This can be done by rinsing the spray tank and equipment with clean water, then thoroughly reagitate before using.

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After treatment, spray tank and equipment must be thoroughly cleaned. This includes the spray tank, spray gun, boom, pump, filter, and all other parts of the system. It is important to remove all residues from the spray tank and equipment to prevent clogging and damage. This can be done by rinsing the spray tank and equipment with clean water, then thoroughly reagitate before using.

SPRAY PREPARATION/PRODUCT MEASUREMENT/SURFACTANT

Measure one cup of Clean Plus into the necessary amount of water in the spray tank with the agitator running. Agitation is required for uniform mixing and delivery.

After spray preparations are made, spray tank is cleaned, thoroughly reagitate before using.

MEASUREMENT: The amount of product to be sprayed is measured in gallons or liters as directed by the degree of accuracy required. Accurate measurement is always preferred in ounces.

SURFACTANT: Spray surfactant is added to spray tank after emergence application to weeds to improve wetting of the foliage of weeds. Add surfactant to spray tank last of spray volume as the last ingredient. The higher the surfactant rate, the better the control will be, especially when using low rates of Clean Plus, and when spraying tall, coarse weeds. See Specific Use Instructions. Anti foaming agents may be needed.

LIQUID FERTILIZER TANK MIXTURES

LIQUID FERTILIZER: Measure one cup of Clean Plus into the necessary amount of water in the spray tank. Pour water into the spray tank with the agitator running. Agitation is required for uniform mixing and delivery.

After spray preparations are made, spray tank is cleaned, thoroughly reagitate before using.

After spray preparations are made, spray tank is cleaned, thoroughly reagitate before using.

TANK MIXTURES WITH OTHER HERBICIDES, INSECTICIDES AND FUNGICIDES

SPRAY EQUIPMENT AND SPRAY VOLUME

Do not use tank mixtures with other herbicides, insecticides or fungicides in any spray equipment that has been used previously for application of any other product. Any equipment used for tank mixtures must be thoroughly cleaned before starting to mix and apply.

SPRAY EQUIPMENT AND SPRAY VOLUME

Do not use tank mixtures with other herbicides, insecticides or fungicides in any spray equipment that has been used previously for application of any other product. Any equipment used for tank mixtures must be thoroughly cleaned before starting to mix and apply.

GROUND APPLICATION

Do not use tank mixtures with other herbicides, insecticides or fungicides in any spray equipment that has been used previously for application of any other product. Any equipment used for tank mixtures must be thoroughly cleaned before starting to mix and apply.

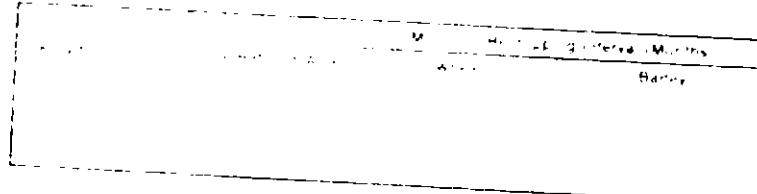
AERIAL APPLICATION

Do not use tank mixtures with other herbicides, insecticides or fungicides in any spray equipment that has been used previously for application of any other product. Any equipment used for tank mixtures must be thoroughly cleaned before starting to mix and apply.

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IMPORTANT

MINIMUM RECROPPING INTERVALS AND CROP ROTATION GUIDELINES
FOR PLANTING WHEAT, WINTER RYE, AND BARLEY WINTER SPRING



**ROTATION INTERVAL FOR PLANTING WHEATGRASS*
ON CONSERVATION RESERVE PROGRAM ACRES**

Soil pH**	Use Rate Oz/Acre	Minimum Interval For Planting Wheatgrass
6.0	0.25 oz	2 months
6.5	0.25 oz	4 months

* Rotation to winter wheatgrass and legume in studies conducted as injury to the legume may occur.
** Soil pH test by laboratory analysis using the wetter suspension method on representative soil samples.
The minimum interval extends until natural soil sampling procedures

ROTATING TO OTHER CROPS

Failure to plant a crop other than wheat, barley or wheatgrass within a minimum of 22 months after the last application of Field B (Field B-1) or Field B-2 (Field B-2 assay). A successful Field B assay means growing to maturity a test strip of the crop(s) intended for production the following year. See "Field B assay" section of label for details. Failure to follow these instructions could result in injury to subsequent crops.

Do not apply field B to land in use. Gear, plowman, or wheat or barley acreage.

SPRAYER CLEANUP

PRECAUTIONS

Use of a different product may be required if resistance to herbicides develops. When using "Glean Plus" for the first time on a particular field, check out symptoms of crop damage 14 days after treatment by means of acreage sampling.

insect pests. Rusts, wheat and barley mildews especially, severely weaken our grain crops, brought low fertility, and the same pest can attack as many as four or five different cereals. Insects and viruses brought disease and insect damage to our crops.

After crop until crop period on soils of pH 7.5 or less as injury to the forage may result.

Digitized by srujanika@gmail.com

The following are the best methods for growing vegetables where soil is poor or sandy. The best methods for growing vegetables where soil is poor or sandy, have eroded knolls, and other crops and

After daily high temperatures less than 50° F. during the month of January, the mean monthly temperature decreased and precipitation increased.

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FIELD BIOASSAY

5. It is a useful for weed control in wheat or barley. However, under some conditions small amounts of the herbicide remain in the soil and may drop off after wheat or barley for 2-3 years after application therefore before sowing a cereal crop after a year of fallow or a year during the 2-3 year period following treatment it is usually necessary to cultivate the land during the 2-3 year period following treatment.

Breakdown rates of the crop residue in fields previously treated with Green Plus were similar to those in untreated fields, indicating that the residues remain in the test strips.

Other factors that influence the rate of disappearance of water from the soil surface are soil moisture and a larger degree of moisture can vary greatly. It remains relatively constant from year to year. Soil moisture varies from year to year and from area to area. Consequently, it is not possible to accurately predict when areas treated with CaCO_3 plus can be rotated to crops other than those listed.

STORAGE AND DISPOSAL

STORAGE Store product only in original container away from other pesticides, fertilizer, food or feed.

DISPOSAL Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Do not reuse or recycle the container. Then either incinerate, reconditioning, or puncture and dispose of in a sanitary landfill, city incinerator or as allowed by state or local authorities. By burning, if burned stay out of smoke.

NOTICE TO BUYER: Purchaser of this material does not own any rights under patents of countries outside of the United States.

Trade Name is a trademark of Monsanto Company.
Hercostore is a trademark of Hercules Powder Company.
Kings State 21 is a trademark of Delavan Corporation.
Metol-Starch is a trademark of American Cyanamid Company.

August 1970

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DRY FLOWABLE

