

70907-16

08/16/2000

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

70907-16

AUG 16 2000

Term of Issuance:

Conditional

Name of Pesticide Product:

Stratos™ Dicamba +
Atrazine Agricultural
Herbicide

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Gharda USA, Inc.
P.O. Box 5068
115 Obtuse Hill
Brookfield, CT 06804

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any rate in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read "EPA Reg. No. 70907-16".
 - b. Add the following sentence at the end of the oral First Aid statements:

"Do not give anything by mouth to an unconscious person."
 - c. In the ocular First Aid statements, change the word "eyelids" to "eye".
 - d. Under First Aid, revise "If on skin" to read "If on skin or clothing"

Signature of Approving Official:

Date:

AUG 16 2000

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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- e. Under "Environmental Hazards" delete the words "For terrestrial uses" from the beginning of the statement prohibiting direct applications to "water, or to areas where surface water is present or to intertidal areas below the mean high water mark", since there are no aquatic uses on the label.
- f. On the front cover of the removable booklet, correct the listing of use sites under the product name. It currently reads "For Weed Control in Corn, Grain, Sorghum, and Fallow Systems." As explained in the Agency's December 1, 1999, letter, the comma between "Grain" and "Sorghum" must be deleted, so that it is clear the intended use site is "Grain Sorghum".
- g. On page 25, under "Stratos plus Landmaster BW® or Landmaster II®", correct the typographical error in the second line, so that it reads "... Stratos For added postemergence control of grass and broadleaf weeds." Currently, the words "for" and "added" are reversed.

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller
Product Manager (237)
Herbicide Branch
Registration Division (7505C)

Enclosure

RD:STANTON:PM Team 23:Rm. 239:CM-2:305-5218:Disk #13:70907-RA.REG

CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	S. Stanton							
DATE ▶	Aug 15, 2000							

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Container Label

Restricted Use Pesticide

Ground and Surface Water Concerns

For retail sale to and use by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

STRATOS™

Dicamba + Atrazine Agricultural Herbicide

For Weed Control in Corn, Grain Sorghum, and Fallow Systems.

Active Ingredients:

Potassium salt of dicamba (3,6-dichloro- <i>o</i> -anisic acid)*.....	13.45%
Atrazine**.....	21.92%
Inert Ingredients:.....	64.63%
TOTAL	100.00%

* This product contains 11.47% 3,6-dichloro-*o*-anisic acid (dicamba) which equals 1.1 pounds per gallon (132 g/L), or 0.14 pounds per pint.

** This product contains 21.92% 2-chloro-4-ethylamino-6-isopropyl/amino-s-triazine (atrazine) which equals 2.1 pounds per gallon (252 g/L), or 0.26 pounds per pint.

SHAKE BEFORE USING

Keep Out of Reach of Children

CAUTION

See side panel for additional precautionary statements.

EPA Reg. No. 70907-(to be assigned)
EPA Est. No.
Net Contents:

Gharda USA, Inc.
Brookfield, CT 06804

ACCEPTED
with COMMENTS
In EPA Letter Dated

AUG 16 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

70907-16

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

CAUTION. Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Avoid Contact with skin, eyes or clothing. Avoid breathing spray mist.

First Aid

If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to by a poison control center or doctor.
If in eyes:	<ul style="list-style-type: none">• Hold eyelids open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 15 minutes then continue rinsing.• Call a poison control center or doctor for treatment advice.
If on skin:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

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Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selections chart.

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton.
- Chemical-resistant footwear plus socks.

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton.
- Chemical-resistant footwear plus socks.
- Protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 - Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
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Environmental Hazards

Keep out of lakes, streams or ponds. This product is toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Run-off and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Apply this product only as directed on label.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft. around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or set-back from run-off points must be planted to crop or seeded with grass or other suitable crop.

Tile-Terraced Fields Containing Standpipes

To ensure protection of surface water from run-off through standpipes and tile outlets in terraced fields, one of the following options may be used:

- Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted terraced field.
- Apply this product to the entire tile-outletted field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

DIRECTIONS FOR USE

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

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.

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Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton.
- Chemical-resistant footwear plus socks.

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

Refer to the DIRECTIONS FOR USE booklet attached to this container for proper use directions and additional precautionary statements.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Open dumping is prohibited.

Storage: Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

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

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Container Disposal: For plastic containers: Triple rinse (or equivalent) and add rinsate to spray tank. 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.

Notice of Warranty and Disclaimer

Seller warrants that at the time of delivery the product in this container conforms to its chemical description contained hereon and is reasonably fit for its intended purpose under normal conditions of use. This is the only warranty made on this product. Seller expressly disclaims any implied warranties of merchantability or fitness for any particular purpose and, except as set forth above, any other express or implied warranties. Any damages arising from breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid for this product by Buyer, and shall not include incidental or consequential damages such as, but not limited to, loss of profits or values. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of the seller. In no case shall Seller be liable for the consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. Buyer acknowledges the use of its own independent skill and expertise in the selection and use of the product and does not rely on any oral or written statements or representations.

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Front Cover of Removable Booklet

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This labeling must be in the possession of the user at the time of the pesticide application.

SHAKE BEFORE USING
Keep Out of Reach of Children

CAUTION

See side panel for additional precautionary statements.

EPA Reg. No. 70907-(to be assigned)
EPA Est. No.
Net Contents:

Gharda USA, Inc.
Brookfield, CT 06804

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PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton.
- Chemical-resistant footwear plus socks.

Before applying Stratos, read all directions and precautions appearing on the container label and this booklet. Failure to follow all directions and precautions may result in unsatisfactory weed control, crop injury, or illegal residues.

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Open dumping is prohibited.

Storage: Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

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

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GENERAL INFORMATION

Stratos is intended for control and suppression of annual broadleaf and perennial broadleaf weeds. Stratos may be applied preplant through early post-emergence on field corn, seed corn, popcorn and silage corn, early post-emergence on grain sorghum, and as a post-harvest treatment in fallow (wheat/fallow/wheat) and eco-fallow (wheat/corn or sorghum/fallow) rotations.

Ground Surface Water Advisory

Stratos contains the active ingredient atrazine. Atrazine can leach through soil and has been found to result in contamination of water supplies by way of groundwater. Therefore growers are advised to avoid use of Stratos in a well-drained loamy-sand to sand soils, particularly in areas having high groundwater tables. Consult with your state or county extension agent for alternative recommendations such as Aviator alone or in combination with a non-triazine herbicide.

Check valves or anti-siphoning devices must be used on all mixing equipment to prevent back-siphoning into wells or bulk storage tanks. See the Storage and Disposal section at the end of this booklet regarding proper disposal of excess pesticide, spray mixtures and rinsates.

Do not apply this product through any type of irrigation system. Do not contaminate irrigation ditches or water used for domestic purposes.

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Mixing and Application

Stratos is a water-dispersible formulation that can be applied in water on corn, sorghum, or fallow. Sprayable fluid fertilizer may be used for preemergence application on corn. Fluid fertilizer may damage corn if applied after corn emergence. If a fluid fertilizer will be used, a compatibility test (see Compatibility Test) should be made prior to tank mixing.

Ground or aerial application equipment which will give good spray coverage of weed foliage should be used.

Rainfall or irrigation occurring within 4 hours after postemergence applications may reduce the effectiveness of Stratos.

Apply 10 to 50 gallons of diluted spray per treated acre when using ground application equipment or 2 to 10 gallons of diluted spray per treated acre when using aerial application equipment. Use the higher spray volumes when treating dense or tall vegetation.

Stratos should not be applied during periods of gusty wind or when wind is in excess of 15 mph as uneven spray coverage may occur.

Sensitive Crop Protections

Stratos may cause injury to desirable broadleaf plants or trees when contacting their roots, stems or foliage. To avoid potential off-target herbicide movement:

- Do not apply Stratos in the general vicinity of tobacco, tomatoes, or other highly sensitive plants.
- Do not use aerial applications if broadleaf crops are growing in the vicinity of the area to be treated.
- Do not make applications when winds are moving toward sensitive crops, inversions are present, or high temperatures (above 85°F) are expected on the day of application.
- Use nozzles designed to produce large spray droplets such as Delavan Raindrops, Spraying Systems XR flat fans or large capacity flood nozzles such as Delavan D-10, Spraying Systems TK-10 or greater capacity. Use spray pressure of 30 psi or less and 10 gpa or more, unless otherwise required by the manufacturer of drift reducing nozzles.
- An agriculturally approved drift control agent may be added to further reduce the potential of physical drift at the time of application.

Consult your state and local authorities for possible other application restrictions and advice.

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Tank Mixing

To ensure uniform mixture when Stratos is tank mixed with one or more other products, follow this procedure:

- Fill the spray tank approximately one-third full of water and with the agitator operating, add the recommended amount of ingredients using the following order: dry formulations (e.g. wettable powders, dry flowables) first and liquid suspensions (e.g. flowables) next.
- Mix thoroughly and fill the tank to one-half full with continuous agitation.
- Add emulsifiable concentrate formulations last while maintaining agitation.
- Complete filling the spray tank with water.
- If a surfactant is to be used, add it last.
- If a drift control agent is to be used, follow the directions for mixing on the specific product label.

Band Treatments:

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

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

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

Compatibility Test:

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

Amount of Component to Add to One Pint of Spray Carrier
(Assuming Volume is 25 Gallons Per Acre)

<u>Component Formulations</u>	<u>Rate Per Acre</u>	<u>Level Teaspoons</u>
Dry	1 lb.	1 1/2
Liquid	1 pt.	1/2

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If components do not ball-up or form flakes, sludge, gels, oily films or layers, or other precipitates, then the tested spray mix is compatible. Usually incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of an agriculturally approved compatibility agent is recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon per pint is equivalent to 2 pints per 100 gallons of fluid fertilizer).

Procedure for Cleaning Spray Equipment:

Before preparing spray mixture, be sure all equipment is clean to prevent uneven applications, clogged nozzles or crop injury. Thoroughly clean equipment following applications of Stratos. Avoid allowing dry sediment formation within spray tank.

The steps listed below are suggested for thorough cleaning of spray equipment following applications of Stratos or tank mixes of Stratos.

1. Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Preferably, inside surfaces should be rinsed using a multi-directional nozzle such as Spray Systems Tank Rinsing Nozzle 27500E-TEF®. Flush by operating sprayer until the system is purged of all rinse water.
2. Fill tank with water while adding a commercially available tank cleaning agent such as Nutra-Sol®, Incide-Out® or Loveland Tank and Equipment Cleaner®. Carefully read and follow tank cleaning agent label directions. Operate the pump to circulate the cleaning solution through the sprayer system for 15 to 20 minutes and discharge a small amount through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
3. Completely flush the cleaning solution out of the spray tank.
4. Remove nozzles and screens. Fill tank with clean water and circulate through the sprayer system for 15 to 20 minutes. Discharge a small amount through boom lines.
5. Completely flush rinse water out of the spray tank.

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GENERAL WEED LIST

This is a general list of weed species which may be treated with Stratos as recommended under the rates and timing sections of specific crop uses listed in this label. Stratos, when applied at recommended rates, will control many ANNUAL broadleaf weeds and give growth suppression of many PERENNIAL broadleaf weeds including:

Annuals

Buckwheat, Wild	Pigweed, Prostrate
Burcucumber	Pigweed, Redroot (Carelessweed)
Chickweed, Common	Pigweed, Rough
Clover (Annual)	Pigweed, Smooth
Cocklebur, Common	Pigweed (Triazine Resistant)
Cucumber, Wild	Pigweed, Tumble
Jimsonweed	Puncturevine
Kochia	Purslane, Common
Kochia (Triazine Resistant)	Ragweed, Common (Buffaloweed)
Kochia (Sulfonylurea Resistant)	Ragweed, Giant
Ladysthumb	Ragweed, Lance-Leaved
Lambsquarters, Common	Sicklepod
Lambsquarters (Triazine Resistant)	Sida, Prickly (Teaweed)
Mallow, Common	Smartweed, Green
Mallow, Venice	Smartweed, Pennsylvania
Marestail	Spanishneedles
Morning-glory, Ivyleaf	Spurge, Prostrate
Morning-glory, Tall	Sunflower, Common (Wild)
Mustard, Wild	Sunflower, Volunteer
Mustard, (Yellowtops)	Tansymustard
Nightshade, Black	Thistle, Russian
	Velvetleaf
	Waterhemp

Perennials

Alfalfa	Dogbane, Hemp
Artichoke, Jerusalem	Horsenettle, Carolina
Bindweed, Field	Lespedeza
Bindweed, Hedge	Milkweed, Common
Canada thistle	Ragweed, Western
Clovers, (Perennials)	Smartweed, Swamp
Dandelion, Common	Sowthistle
Dock, Broadleaf (Bitterdock)	Trumpet creeper
Dock, Curly	Vetch

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ROTATIONAL CROPS

To avoid potential injury to or illegal residues in rotational crops, use the following guidelines:

- 1) In cases of treated crop failure the area may be replanted to either corn or sorghum during the same cropping season. If corn is replanted, do not apply Stratos or Aviator until after emergence. Consult label of each product for application directions and do not exceed the maximum yearly use rate for Stratos or Aviator. If sorghum is the replanted crop *either Aviator or Stratos can be used* as a postemergence application - follow each label's directions; do not exceed the maximum yearly use rate.
- 2) If applied after June 10th, rotation with crops other than corn or sorghum the following spring may result in crop injury.
- 3) In the High Plains and inter-mountain areas of the West, where rainfall is sparse and erratic or where irrigation is required, use only when corn or sorghum is to follow corn or sorghum, or when a crop of untreated corn or sorghum is to precede other rotational crops.
- 4) For soils containing a calcareous surface layer, such as those found in eastern parts of the Dakota's, Kansas, western Minnesota, and Nebraska, injury may occur to soybeans planted the year following application. On soils containing a calcareous surface layer, small grain injury could occur.
- 5) Small grains may be planted 10 months following treatment. Do not plant sugarbeets, tobacco, vegetables, (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application, or injury may occur.

FIELD, SEED*, POPCORN* AND SILAGE CORN

Observe all previously noted precautions, mixing and application instructions as well as the following:

* Do not apply Stratos to seed corn or popcorn without first verifying with your local seed corn company (supplier) the selectivity of Stratos on your inbred line or variety of popcorn. This precaution will help avoid potential injury of sensitive varieties.

Stratos is not registered for use on sweet corn.

Direct contact of Stratos with corn seed must be avoided in preplant or preemergence applications. If corn seeds are less than 1 1/2 inches below the soil surface, delay application until corn has emerged.

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Corn growing under stress conditions such as low temperatures, drought, poor fertility, excessive moisture, or foliar damage due to hail, wind or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

An agricultural approved surfactant, crop oil or sprayable fluid fertilizer (such as 1/2 - 1 gallon per acre of 28%, 30% or 32% urea ammonium nitrate), or ammonium sulfate (2 - 2 1/2 lbs per acre) may be added to spray mix to improve postemergence weed control, particularly on drought stressed weeds.

The use of adjuvants containing penetrants such as petroleum based oils after corn emergence may cause crop injury.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk stage) or later in maturity.

A maximum of two applications of Stratos may be made through the 5 leaf stage or 8 inches tall, whichever occurs first. Application must be separated by two weeks or more. Do not exceed 5 1/4 pints per acre per year (a total of 0.75 pounds dicamba and 1.37 pounds atrazine).

Stratos may be applied before or after Aviator. Applications must be separated by two weeks or more. Maximum rate for sequential applications is Stratos at 3 1/2 pints per acre followed by Aviator at 1/2 pint or Aviator at 1 pint per acre followed by Stratos at 1 3/4 pints per acre.

To reduce the amount of atrazine used per acre, Stratos at 2 pints per acre may be tank mixed with 1/2 pint per acre of Aviator. Do not apply this tank mix on coarse textured soils or any soils with less than 2% organic matter prior to corn emergence.

Weeds Controlled

Stratos will control many ANNUAL broadleaf weeds or give growth suppression of many PERENNIAL broadleaf weeds commonly found in corn (refer to the GENERAL WEED LIST section of this booklet).

Rates and Timings

Preplant and Preemergence in No Tillage Corn

Applications of Stratos may be made before, during or after planting for control of emerged and actively growing broadleaf weeds. Apply Stratos at the rate of 3 1/2 pints per acre on medium or fine textured soils containing 2% or greater organic matter. Use 2 pints per acre on coarse soils, (sand, sandy loam and loamy sand) or medium and fine textured soils with less than 2% organic matter.

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When planting into a legume sod (e.g. alfalfa or clover), apply Stratos after 4 - 6 inches of regrowth has occurred. For added control of dandelion or plantain, 2,4-D at 1/4 to 1/2 lbs. a.i. per acre may be tank mixed with Stratos.

Preemergence in Conventional or Reduce Tillage Corn

Stratos may be applied after planting and prior to corn emergence. Application of 3 1/2 pints per treated acre may be made to medium or fine textured soils which contain 2% or greater organic matter. DO NOT apply to coarse textured soils (sand, loamy sand or sandy loam) or any soil with less than 2% organic matter until after corn emergence (see Early Postemergence uses below).

Preemergence application of Stratos does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g. drags, harrows) which concentrate treated soil over seed furrow, as seed damage could result.

Early Postemergence
(All Tillage Systems)

Stratos at 3 1/2 pints per treated acre may be applied during the period from corn emergence through 5 leaf stage or 8 inches tall, whichever occurs first. Reduce the rate to 2.0 pints per treated acre for corn grown on coarse textured soils (sand, sandy loam and loamy sand).

Overlay
(Sequential Treatments)

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

Herbicide	Maximum Rate Per Treated Acre (Lbs. a.i.)
Acetochlor (Surpass®, Harness® Plus)	3
Alachlor (Lasso®)	4
Atrazine*	*
Butylate (Sutan+®)	6
Cyanazine (Bladex®)	4
Dimethenamid (Frontier®)	1 1/2
EPTC (Eradicane®)	6
Flumetsulan (Broadstrike®)	0.068
Glyphosate (Roundup®)	5
Metolachlor (Dual®)	3

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Paraquat (Gramoxone®)	1
Pendimethalin (Prowl®)	2
Propachlor (Ramrod®)	6

*** Maximum pounds a.i. per treated acre for atrazine**

For all soil applications prior to crop emergence -

On Highly Erodible Soils (as defined by the SCS):

If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, the maximum rate is 2 pounds a.i./acre.

If the soil coverage with plant residue is less than 30% at planting, a maximum of 1.6 pounds a.i./acre can be applied.

On Soils Not Highly Erodible:

The maximum rate which can be applied is 2 pounds a.i./acre.

For Postemergence Application:

If no atrazine was applied prior to corn emergence, the maximum rate is 2 pounds a.i./acre. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds a.i./acre per calendar year

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

Tank Mix Treatments

Stratos may be applied prior to, during, or after planting, but before the corn exceeds 8 inches tall. Stratos may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. When tank mixing Stratos with other products, read the label of each tank mix partner for precautionary statements, directions for use and other restrictions. Also, read the General Information Tank Mixing section given earlier in this label.

Stratos plus Accent®

Application may be made after grass weed emergence but before corn is greater than 8 inches tall. Use 2/3 to 1 1/3 ounces of Accent 75DF per treated acre. Use a non-ionic surfactant at 0.25% v/v and sprayable fluid fertilizer (such as 28%, 30% or 32% urea ammonium nitrate at 4% v/v with this tank mixture.

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Stratos plus Atrazine

Application may be made before corn exceeds 8 inches in height. Consult the maximum poundage of atrazine allowed on page ____ for maximum rates. For improved suppression of newly emerged annual grasses, crop oil concentrate may be added to this mixture if corn does not exceed 5 inches in height. Do not apply preemergence to peat, muck and high organic clay soils.

Stratos plus Bladex® (cyanazine)

Application may be made before grasses are 1 1/2 inches tall and the corn is not beyond the four leaf stage. Use 1 1/4 - 4 lbs. a.i. Bladex per treated acre for preemergence and 1 1/4 - 2 lbs. a.i. for postemergence treatments. AFTER CORN EMERGENCE, USE ONLY THE BLADEx 90DF FORMULATIONS.

Stratos plus Dual® (metolachlor)

Application may be made until grasses reach the two-leaf stage and before corn is greater than 3 inches tall. Applications prior to crop emergence may only be made on medium to fine textured soils containing 2 1/2% or greater organic matter. Use 1 1/2 - 2 1/2 lbs. a.i. Dual per treated acre.

Stratos plus Frontier® (dimethenamid)

Apply Frontier at 13 - 25 fluid ounces per acre for preemergence grass control. Applications can be made during or after planting before corn exceeds 8 inches in height. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater than 1 inch tall at the time of application.

Stratos plus Gramoxone® (paraquat)

Application may be made to emerged weeds, but before corn emerges. Use 1/4 - 1 lb. a.i. Gramoxone per treated acre.

Stratos plus Surpass® or Harness® plus (acetochlor)

Apply Harness plus or Surpass at 1 1/2 - 3 pounds a.i. per acre. Applications may be made during or after planting and before corn emergence. Applications may only be made on medium or fine textured soils containing 2 1/2% or greater organic matter.

Stratos plus Lasso® (alachlor)

Application may be made until grasses reach the two-leaf stage and before corn is greater than 3 inches tall. Applications prior to crop emergence may only be made to fine textured soils containing 2 1/2% or greater organic matter. Apply 2 1/2 - 3 lbs. a.i. Lasso per treated acre.

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Stratos plus Prowl® (pendimethalin)

Application may be made after planting and before corn exceeds the two-leaf stage, and grass weeds are no more than one inch tall. Application prior to crop emergence should only be made on medium to fine textured soils containing 2 1/2% or greater organic matter. Use 3/4 to 1 1/2 lbs. a.i. Prowl per treated acre.

Stratos plus Roundup® (glyphosate)

Application may be made to emerged weeds, but before corn emerges. Use 1 - 3 lbs. a.i. Roundup per treated acre.

Stratos Plus Stinger® (clopyralid)

For annual broadleaf and Canada thistle weed control, applications may be made anytime after corn emergence through 5 leaf or 8 inch tall corn. Apply when the majority of the thistle plants have emerged and are at least 4 inches in height, but before bud stage. Use Stratos plus 1 1/2 - 3 fl oz/A Stinger through 8 inch or 5 leaf corn. Use higher rates listed for stand reduction of larger thistle plants or heavier infestations. Lower rates listed may provide seasonal thistle suppression only.

GRAIN SORGHUM

Observe all previous noted precautions, mixing and application instructions as well as the following:

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

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

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

Make no more than one application of Stratos per growing season.

Postemergence application must be made before sorghum reaches 8 inches in height.

Delay harvest until 30 days after treatment.

Do not apply Stratos to sorghum grown for seed production.

Sorghum may be harvested or grazed for feed once the crop has reached the mature grain stage.

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Weeds Controlled

Stratos, when applied at the recommended rates and timings for grain sorghum, will control many ANNUAL broadleaf weeds (e.g. pigweed) and will reduce the competition from established PERENNIAL broadleaf weeds as well as control their seedlings. Consult General Weed List for a complete list of weeds controlled.

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

Rates and Timings

Stratos herbicide application in grain sorghum (milo) should be made between the 2-5 leaf stage (about 2-8 inch tall) of the sorghum.

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

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

Do not add crop oil. Do not add surfactant unless possible crop injury is acceptable.

Overlay (Sequential) Treatments

Stratos may be applied to ground previously treated with the following herbicides:

Herbicide	Maximum rate of listed compound per treated acre (lbs a.i.)
Alachlor (Lasso®) (Screen®-treated seed)	4
Atrazine	*
Metolachlor (Dual®) (Concep®-treated seed)	2 1/2
Propachlor (Ramrod®)	5

* Maximum pounds a.i. per treated acre for Atrazine

For all soil applications prior to crop emergence:

On Highly Erodible Soils (as defined by SCS):

If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, the maximum rate is 2 pounds a.i./A.

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If the soil coverage with plant residue is less than 30% at planting, a maximum of 1.6 pounds a.i./A can be applied.

On Soils Not Highly Erodible:

The maximum rate which can be applied is 2 pounds a.i./A.

For Postemergence Application:

If no atrazine was applied prior to sorghum emergence, the maximum rate is 2 pounds a.i./A. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds a.i./A per calendar year.

Tank Mix Stratos plus Atrazine

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

Use tank mix on medium or fine soils only. Add 1/2 lb. a.i. atrazine per treated acre for added residual broadleaf weed control. Add 1 1/2 lbs. a.i. atrazine per treated acre for control of emerged grasses less than 1 1/2 inches tall. Do not add crop oil or surfactant to this combination or crop injury may result. Atrazine carryover may injure small grains and broadleaf crops if the total rate of atrazine exceeds the rate recommended for that specific geographic area or crop rotation.

POST HARVEST ON FALLOW GROUND

Stratos may be applied from summer to fall after wheat harvest to fallow ground in wheat/fallow/wheat or wheat/corn or sorghum/fallow (Eco-Fallow) rotations. Observe all previously noted precautions, mixing and application instructions, as well as the following:

Do not graze or feed forage from treated areas to livestock.

Do not plant any crop other than those listed on this label within 18 months following treatment.

Agriculturally approved spray adjuvants such as surfactants, crop oil concentrates, or fluid fertilizers are recommended for use with Stratos when applied to emerged weeds.

For Eco-Fallow system, plant corn or sorghum in spring after treatment with minimum soil disturbance. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at planting, remove them with a sweep plow or other suitable implement before planting.

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Weeds Controlled

Stratos when applied at recommended rates and timings for fallow applications, will control many ANNUAL broadleaf weeds and will give growth suppression of many PERENNIAL broadleaf weeds as well as control their seedlings. Refer to the General Weed List in the General Information Section of this booklet for a complete list of weeds controlled.

Rotational Crop Precautions

The application rates and timings in this label pertain to a cropping system of WHEAT/FALLOW/WHEAT (Post-Harvest Fallow) or WHEAT/CORN or SORGHUM/FALLOW (Eco-Fallow). If any other crop is to be substituted for wheat, corn, sorghum or the fallow period, refer to the crop rotation restrictions in the General Information section of this label.

To avoid injury to crops planted after application(s) of Stratos, specific restrictions for post harvest fallow or eco-fallow application(s) are:

1. Use only on silt, loam or finer-textured soils.
2. Do not treat erodible hillsides, caliche, and rocky outcroppings, or exposed calcareous subsoil.
3. Do not treat soils of the Rosebud and Canyon series in Western NE and adjoining counties in CO and WY.
4. Do not treat soils with calcareous surface layers.
5. Avoid overlapping spray swaths during treatment application.

Wheat/Fallow/Wheat

STRATOS MAY BE USED FOR WHEAT/FALLOW/WHEAT SYSTEMS IN: CO, KS, NE, OK, SD, TX, & WY.

Rates and Timings:

For preemergence or postemergence control or suppression of the weed species listed in this booklet, apply Stratos at 2 to 3 1/2 pints per treated acre as a broadcast treatment. For best performance, make application soon after wheat harvest prior to or soon after weed emergence. A split application of Stratos may be used, but only in the summer to fall after wheat harvest and may not exceed the maximum labeled rate of 3 1/2 pints per treated acre.

Wheat/Corn or Sorghum/Fallow (Eco-Fallow)

STRATOS MAY BE USED FOR WHEAT/CORN OR SORGHUM/FALLOW (ECO-FALLOW) SYSTEMS IN: CO, KS, NE, OK, & TX.

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Rates and Timings

Preemergence or Postemergence

For control of annual broadleaf or grass weeds following wheat and in to the following corn or sorghum crop (when grown under minimum tillage), apply 2 to 11 pints/Acre of Stratos after wheat harvest. For best performance make application within 10 days following wheat harvest. Use the higher rates in the rate range for added grass control and longer residual weed control. A split application of Stratos may be used but only in summer to fall after wheat harvest and may not exceed the maximum labeled rate of 11 pints/Acre (2.8 pounds atrazine/Acre).

Tank Mix Treatments:

Post Harvest Fallow and Eco-Fallow

Stratos may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. When tank mixing Stratos with other products, read the label of each tank mix partner for precautionary statements, directions for use and other restrictions.

Stratos plus Aviator®

Aviator® Herbicide at 1 pint per treated acre may be tank mixed with Stratos for additional suppression of broadleaf perennial species that are actively growing at the time of application.

Stratos plus 2,4-D

2,4-D amine or ester at 1/8 to 1 lb. a.i. per treated acre may be tank mixed with Stratos for improved postemergence burndown of annual or perennial broadleaf weeds. Burndown activity will particularly be enhanced on weeds growing under drought conditions or weeds that have been "topped" during the harvest operation.

Stratos plus Roundup® or Roundup RT®

Roundup® at 1 pint per treated acre may be tank mixed with Stratos for added postemergence control of grass or broadleaf weeds.

Stratos plus Atrazine

In areas such as Oklahoma and Texas where a higher ratio of atrazine to dicamba is desired, atrazine can be tank mixed with Stratos. Consult the table showing the maximum amount of atrazine that can be applied on page ___.

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Stratos plus Landmaster BW® or Landmaster II®

Landmaster® at 27 to 54 ounces product per treated acre may be tank mixed with Stratos added for postemergence control of grass and broadleaf weeds.

Stratos plus Fallow Master®

Fallowmaster® at 32 to 44 ounces product per treated acre may be tank mixed with Stratos for added postemergence control of grass and broadleaf weeds.

Stratos plus Gramoxone® or Cyclone®

Gramoxone® or Cyclone® may be tank mixed with Stratos for additional postemergence control of grass and broadleaf weeds. Refer to Gramoxone or Cyclone label for recommended use rates.

Stratos plus Sulfonylurea (Glean®, Ally® or others)

Apply as a tank mix with Stratos for additional preemergence or postemergence control of broadleaf weeds. Refer to sulfonylurea (Glean®, Ally® or others) label for recommended use rates.

Stratos plus Command®

Command® at 16 to 32 ounces product per acre may be tank mixed with Stratos for additional preemergence control of grass and broadleaf weeds.

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

First Aid

If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to by a poison control center or doctor.
If in eyes:	<ul style="list-style-type: none">• Hold eyelids open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 15 minutes then continue rinsing.• Call a poison control center or doctor for treatment advice.
If on skin:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category sections chart.

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton.
- Chemical-resistant footwear plus socks.

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Mixers and Loaders must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton.
- Chemical-resistant footwear plus socks.
- Protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Keep out of lakes, streams or ponds. This product is toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Run-off and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Apply this product only as directed on label.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and

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reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft. around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or set-back from run-off points must be planted to crop or seeded with grass or other suitable crop.

Tile-Terraced Fields Containing Standpipes

To ensure protection of surface water from run-off through standpipes and tile outlets in terraced fields, one of the following options may be used:

- Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted terraced field.
- Apply this product to the entire tile-outletted field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

Warranty and Disclaimer

Seller warrants that at the time of delivery the product in this container conforms to its chemical description contained hereon and is reasonably fit for its intended purpose under normal conditions of use. This is the only warranty made on this product. Seller expressly disclaims any implied warranties of merchantability or fitness for any particular purpose and, except as set forth above, any other express or implied warranties. Any damages arising from breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid for this product by Buyer, and shall not include incidental or consequential damages such as, but not limited to, loss of profits or values. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of the seller. In no case shall Seller be liable for the consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. Buyer acknowledges the use of its own independent skill and expertise in the selection and use of the product and does not rely on any oral or written statements or representations.

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Registered Trademarks

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Battalion, Bronco, Harness Plus, Landmaster BW, Landmaster II, Lasso, Ramrod, Roundup, and Roundup RT are registered trademarks of Monsanto Agricultural Products Company.

Broadstrike and Stinger are registered trademarks of DowElanco, Inc.

Command is a registered trademark of FMC Corporation.

Concep and Dual are registered trademarks of Novartis.

Gramoxone, Cyclone, Eradicane, Surpass, and Sutan + are registered trademarks of Zeneca Inc. Ag Products.

Loveland is a trademark of Loveland Industries, Inc.

Prowl is a registered trademark of American Cyanamid Company.

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