

33658-31

4/8/2010

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**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**Office of Pesticide Programs**  
**Registration Division (7505P)**  
**Ariel Rios Building**  
**1200 Pennsylvania Ave., NW**  
**Washington, D.C. 20460**

EPA Reg. Number:  
 33658-31

Date of Issuance:  
 APR - 8 2010

NOTICE OF PESTICIDE:  
 \_\_\_ Registration  
X Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:  
 Stratos Dicamba + Atrazine Agricultural Herbicide

Name and Address of Registrant (include ZIP Code):  
 Gharda Chemicals Ltd.  
 660 Newtown-Yardley Road, Suite 106  
 Newtown, PA 18940

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.

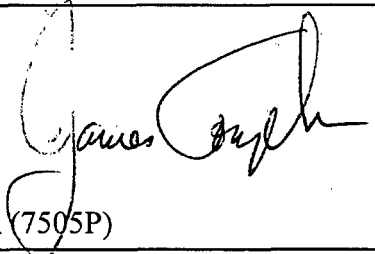
On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect 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 name 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 reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Make all the following changes to the product label:
  - a. Due to the importance of resistance management to a long-term pest-management strategy, it is suggested that resistance management grouping symbols and statements be included on the labeling as described in PR Notice 2001-5.
  - b. Change the heading from "Inert Ingredients" to "Other Ingredients".
  - c. Change the EPA Reg. No. to "33658-31".
  - d. Change the Hazards to Humans and Domestic Animals statement to read as follows:  
 "CAUTION Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing."
  - e. The First Aid "If Inhaled", "If Swallowed", and Note to Physician statements are optional for this product and may be removed.

Continued on Page 2

Signature of Approving Official:  
 Jim Tompkins  
 Product Manager 25  
 Herbicide Branch  
 Registration Division (7505P)



Date:  
 APR - 8 2010

- f. Change the heading to read “Personal Protective Equipment (**PPE**)” and change the first paragraph to read “Some materials that are chemical-resistant to this product are **made of any waterproof material.**” If you want more options, follow the instructions for category **A** on an EPA chemical-resistance category selection chart.”
- g. Change the gloves PPE to read “chemical-resistant gloves”.
- h. Change the User Safety Requirements phrase to “If no such washables **exist**,...”
- i. Change the Engineering Controls sentence to read “Mixers and loaders supporting aerial applications **at a rate greater than 3 lbs atrazine ai/A** must use a closed system...”
- j. Under Engineering Controls, correct the second bullet to “**wear** protective **eyewear**”.
- k. Change the Environmental Hazards sentence to read “Do not contaminate water when disposing of equipment wash water **or rinsate.**”
- l. Change the restricted entry interval (REI) from “12 hours” to “24 hours”.
- m. Remove the Agricultural Use Requirements double-notification text “Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.” since it is no longer required.
- n. On page 13, add the atrazine restriction “When tank-mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, the total pounds of atrazine applied (lbs ai/A) must not exceed 2.5 pounds active ingredient per year.” and remove the existing restriction for crops other than corn or sorghum.
- o. On page 15, change the heading from “GENERAL INFORMATION” to “PRODUCT INFORMATION”.
- p. On page 15 under Mixing and Application, remove the text “water dispersible formulation” and insert the correct formulation type for this product.
- q. On page 19, change the heading from “GENERAL WEED LIST” to “WEED LIST”. In the text, change the word from “recommended” to “specified” in both instances.
- r. Throughout the label, revise all phrases from “recommended rate” to “specified rate” and from “rate recommended” to “rate specified”.
- s. On page 12 under Grain Sorghum, remove the text “Delay harvest until 30 days after treatment.”
- t. On page 12 under Grain Sorghum, add the Harvest Interval “Sorghum fodder and grain use: 30-day PHI”.

- u. On page 30 under Warranty and Disclaimer, add the phrase "To the extent consistent with applicable law" directly in front of the following statements:
  - i. "Seller expressly disclaims any implied warranties of merchantability or fitness..."
  - ii. "In not case shall Seller be liable for the consequential..."
  - iii. "All such risks are assumed by the Buyer."

The basic confidential statement of formula (CSF) dated March 28, 2005 is acceptable.

A stamped copy of your label is enclosed for your records. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after twelve (12) months from the date of this notice or the next printing of the label, whichever occurs first, must bear the new revised label. 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.

Enclosure

[CONTAINER LABEL]

### Restricted Use Pesticide

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

# STRATOS®

## Dicamba + Atrazine Agricultural Herbicide

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

**Active Ingredients:**

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

\* 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.

**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.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
APR - 8 2010

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

33658-31

EPA Reg. No. 33658-~~16~~31  
EPA Est. No. 44616-MO-1  
Net Contents: 2.5 gallons

Gharda Generics, Inc.  
660 Newtown-Yardley Rd., Suite 106  
Newtown, PA 18940  
215-968-9474

STRATOS® is a Registered Trademark of Gharda Chemicals Limited

**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.

<b>FIRST AID</b> (Substituted Benzoic acid + Triazine)	
If inhaled:	<ul style="list-style-type: none"> <li>▪ Remove person to fresh air.</li> <li>▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>▪ Call a poison control center or doctor for further treatment advice.</li> </ul>
If on Skin or clothing:	<ul style="list-style-type: none"> <li>▪ Take off contaminated clothing.</li> <li>▪ Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>▪ Call a poison control center or doctor for treatment advise.</li> </ul>
If In eyes:	<ul style="list-style-type: none"> <li>▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>▪ Call a poison control center or doctor for treatment advise.</li> </ul>
If swallowed:	<ul style="list-style-type: none"> <li>▪ Call poison control center or doctor immediately for treatment advice.</li> <li>▪ Have person sip a glass of water if able to swallow.</li> <li>▪ Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>▪ Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOT LINE NUMBER</b> (Substituted Benzoic acid + Triazine)	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment information call: 1-(866)-359-5660	
<b>NOTE TO PHYSICIAN</b>	
Probable mucosal damage may contraindicate the use of gastric lavage.	

**Personal Protective Equipment:**

Some materials that are chemical-resistant to this product are barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton. If you want more options, follow the instructions for category C on an EPA chemical resistance category sections chart.

Mixers, loaders, applicators, flaggers, and other handlers 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,
- Shoes plus socks, and
- Chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

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.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering controls statements:

Mixers and loaders supporting aerial applications at a rate greater than 3 lbs ai/A must use a closed system that meets the requirements for dermal protection listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4) and must:

- wear the personal protective equipment required for mixers and loaders,
- wear protective eyewear if the system operates under pressure, and
- be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: chemical resistant footwear.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators, however, they need not wear chemical-resistant gloves when using an enclosed cockpit.

Flaggers supporting aerial applications must use an enclosed cab that meets the definition on the Worker Protection Standard for Agricultural Pesticides (40 CFR 170.240(d)(5)) for dermal protection.

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

<p><b>User Safety Recommendations:</b></p> <p>Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</p> <p>Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</p> <p>Users should 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.</p>
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## Environmental Hazards

Atrazine can travel (seep or leach) through soil and can enter ground water, which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply Atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable; i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or form the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

One of the following restrictions must be used in applying Atrazine to tile-outletted terraced fields containing standpipes:

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

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.



## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a well-ventilated area.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **CONTAINER DISPOSAL:**

**(Nonrefillable container 5 gallons or less):** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

**Residue Removal:** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**(Refillable containers up to 250 gallons or less):** This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Reseal and return the container to the point of purchase or to a designated location named at the time of purchase of this product. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC: 1-800-424-9300**

[FRONT COVER OF REMOVABLE BOOKLET]

**Restricted Use Pesticide**  
Due to Ground and Surface Water Concerns  
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# STRATOS<sup>®</sup>

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

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

\* 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.

**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

EPA Reg. No. 33658-16  
EPA Est. No. 44616-MO-1  
Net Contents: 2.5 gallons

Gharda Generics, Inc.  
660 Newtown-Yardley Rd., Suite 106  
Newtown, PA 18940  
215-968-9474

**STRATOS<sup>®</sup> is a Registered Trademark of Gharda Chemicals Limited**

[Booklet page numbers to be added at final printing]

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Warranty and Disclaimer

**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.

<b>FIRST AID</b> (Substituted Benzoic acid + Triazine)	
If inhaled:	<ul style="list-style-type: none"> <li>▪ Remove person to fresh air.</li> <li>▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>▪ Call a poison control center or doctor for further treatment advice.</li> </ul>
If on Skin or clothing:	<ul style="list-style-type: none"> <li>▪ Take off contaminated clothing.</li> <li>▪ Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>▪ Call a poison control center or doctor for treatment advise.</li> </ul>
If In eyes:	<ul style="list-style-type: none"> <li>▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>▪ Call a poison control center or doctor for treatment advise.</li> </ul>
If swallowed:	<ul style="list-style-type: none"> <li>▪ Call poison control center or doctor immediately for treatment advice.</li> <li>▪ Have person sip a glass of water if able to swallow.</li> <li>▪ Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>▪ Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOT LINE NUMBER</b> (Substituted Benzoic acid + Triazine)	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment information call: 1-(866)-359-5660	
<b>NOTE TO PHYSICIAN</b>	
Probable mucosal damage may contraindicate the use of gastric lavage.	

**Personal Protective Equipment:**

Some materials that are chemical-resistant to this product are barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton. If you want more options, follow the instructions for category C on an EPA chemical resistance category sections chart.

Mixers, loaders, applicators, flaggers, and other handlers 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,
- Shoes plus socks, and
- Chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

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.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering controls statements:

Mixers and loaders supporting aerial applications **at a rate greater than 3 lbs ai/A** must use a closed system that meets the requirements for dermal protection listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4) and must:

- wear the personal protective equipment required for mixers and loaders,
- wear protective eyewear if the system operates under pressure, and
- be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: chemical resistant footwear.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators, however, they need not wear chemical-resistant gloves when using an enclosed cockpit.

Flagger supporting aerial applications must use an enclosed cab that meets the definition on the Worker Protection Standard for Agricultural Pesticides (40 CFR 170.240(d)(5)) for dermal protection.

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], 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.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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

Atrazine can travel (seep or leach) through soil and can enter ground water, which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply Atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable; i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or form the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

One of the following restrictions must be used in applying Atrazine to tile-outletted terraced fields containing standpipes:

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

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

**DIRECTIONS FOR USE**

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

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

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through [[www.atrazine-watershed.info](http://www.atrazine-watershed.info)], or [1-866-365-3014]. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Gharda USA, Inc. for a refund.

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.

### 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 12 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 worn over short-sleeve shirt and short pants
- chemical-resistant footwear plus socks
- chemical-resistant gloves made of any waterproof material
- chemical-resistant headgear for overhead exposure
- protective eyewear

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

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.

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

When tank mixing or sequentially applying Atrazine or products containing Atrazine to crops other than corn or sorghum, the total pounds of Atrazine applied (lbs ai/A) must not exceed the specific seasonal rate limits as noted in the use directions.

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.



## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a well-ventilated area.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **CONTAINER DISPOSAL:**

**(Nonrefillable container 5 gallons or less):** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

**Residue Removal:** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**(Refillable containers up to 250 gallons or less):** This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Reseal and return the container to the point of purchase or to a designated location named at the time of purchase of this product. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC: 1-800-424-9300**

## 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.

### 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.

### **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

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.

**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
- Burcucumber
- Chickweed, Common
- Clover (Annual)
- Cocklebur, Common
- Cucumber, Wild
- Jimsonweed
- Kochia
- Kochia (Triazine Resistant)
- Kochia (Sulfonylurea Resistant)
- Ladysthumb
- Lambsquarters, Common
- Lambsquarters (Triazine Resistant)
- Mallow, Common
- Mallow, Venice
- Marestail
- Morning-glory, Ivyleaf
- Morning-glory, Tall
- Mustard, Wild
- Mustard, (Yellowtops)
- Nightshade, Black

- Pigweed, Prostrate
- Pigweed, Redroot (Carelessweed)
- Pigweed, Rough
- Pigweed, Smooth
- Pigweed (Triazine Resistant)
- Pigweed, Tumble
- Puncturevine
- Purslane, Common
- Ragweed, Common (Buffaloweed)
- Ragweed, Giant
- Ragweed, Lance-Leaved
- Sicklepod
- Sida, Prickly (Teaweed)
- Smartweed, Green
- Smartweed, Pennsylvania
- Spanishneedles
- Spurge, Prostrate
- Sunflower, Common (Wild)
- Sunflower, Volunteer
- Tansymustard
- Thistle, Russian
- Velvetleaf
- Waterhemp

**Perennials**

- Alfalfa
- Artichoke, Jerusalem
- Bindweed, Field
- Bindweed, Hedge
- Canada thistle
- Clovers, (Perennials)
- Dandelion, Common
- Dock, Broadleaf (Bitterdock)
- Dock, Curly

- Dogbane; Hemp
- Horsenettle, Carolina
- Lespedeza
- Milkweed, Common
- Ragweed, Western
- Smartweed, Swamp
- Sowthistle
- Trumpet creeper
- Vetch

**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. 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.

**Preharvest Interval**

The preharvest interval (PHI) for field corn forage is 60 days.

**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.

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 Treatment)

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

\* Maximum broadcast application rates for corn must be as follows:

- If no Atrazine was applied prior to corn/sorghum emergence, apply a maximum of 2 lb ai/A broadcast. If a postemergence treatment is required following an earlier herbicide application, the total Atrazine applied may not exceed 2.5 lb ai/A per calendar year.
- Apply a maximum of 2.0 lb ai/A as a single preemergence application on soils that are not highly erodible or on highly erodible soils if at least 30% of the soil is covered with plant residues; or
- Apply a maximum of 1.6 lb ai/A as a single preemergence application on highly erodible soils if <30% of the surface is covered with plant residues; or 2.0 lb ai/A if only applied postemergence.

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

Apply a maximum of 2.0 lb ai/A as a single preemergence application on soils that are not highly erodible

Postemergence Treatment

Post emergence applications to corn must be made before crop reaches 12 inches in height.

**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.

Stratos plus Atrazine

Application may be made before corn exceeds 8 inches in height. Consult the maximum poundage of atrazine allowed on page [To be added at final printing] 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.

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.

**Harvest Intervals**

Preemergent sorghum forage uses: 60-day PHI

Postemergent sorghum forage uses: 45-day PHI

**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\*** Maximum broadcast application rates for sorghum must be as follows:

- If no Atrazine was applied prior to corn/sorghum emergence, apply a maximum of 2 lb ai/A broadcast. If a postemergence treatment is required following an earlier herbicide application, the total Atrazine applied may not exceed 2.5 lb ai/A per calendar year.
- Apply a maximum of 2.0 lb ai/A as a single preemergence application on soils that are not highly erodible or on highly erodible soils if at least 30% of the soil is covered with plant residues; or
- Apply a maximum of 1.6 lb ai/A as a single preemergence application on highly erodible soils if <30% of the surface is covered with plant residues; or 2.0 lb ai/A if only applied postemergence.

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

**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.

**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 to 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.

**Application Restrictions:**

*For soils in South Dakota with a pH of 7.5 or greater:*

- Do not apply more than 1.5 pounds active ingredient per acre for any application.
- Do not apply more than one application per year.

*For soils in South Dakota with a pH of less than 7.5:*

- Do not apply more than 2.0 pounds active ingredient per acre for any application.
- Do not apply more than one application per year.

*For all other locations:*

- Do not apply more than 2.5 pounds active ingredient per acre for any application.
- Do not apply more than one application per year.

**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.

**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 8 1/2 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 8½ pints/Acre (2.25 pounds atrazine/Acre).

**Application Restrictions:**

- Do not apply more than 2.25 pounds active ingredient per acre for any application.
- Do not apply more than one application per year.

**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 [To be added at final printing].

Stratos plus Landmaster BW® or Landmaster II®

Landmaster® at 27 to 54 ounces product per treated acre may be tank mixed with Stratos for added 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.

## **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.

**Registered Trademarks** [To be added at final printing]

**Revised: February 7, 2005 (Comply with Atrazine MOA)**

**Revised:** [to be added]

[BACK CONTAINER LABEL]

**Restricted Use Pesticide**  
Due to Ground and Surface Water Concerns  
For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

# STRATOS®

## Dicamba + Atrazine Agricultural Herbicide

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

**Active Ingredients:**

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

\* 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.

**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 inside booklet for additional precautionary statements and directions for use.

EPA Reg. No. 33658-16  
EPA Est. No. 44616-MO-1  
Net Contents: 2.5 gallons

Gharda Generics, Inc.  
660 Newtown-Yardley Rd., Suite 106  
Newtown, PA 18940  
215-968-9474

**STRATOS® is a Registered Trademark of Gharda Chemicals Limited**

**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.

<b>FIRST AID</b> (Substituted Benzoic acid + Triazine)	
If inhaled:	<ul style="list-style-type: none"> <li>▪ Remove person to fresh air.</li> <li>▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>▪ Call a poison control center or doctor for further treatment advice.</li> </ul>
If on Skin or clothing:	<ul style="list-style-type: none"> <li>▪ Take off contaminated clothing.</li> <li>▪ Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>▪ Call a poison control center or doctor for treatment advice.</li> </ul>
If In eyes:	<ul style="list-style-type: none"> <li>▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>▪ Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed:	<ul style="list-style-type: none"> <li>▪ Call poison control center or doctor immediately for treatment advice.</li> <li>▪ Have person sip a glass of water if able to swallow.</li> <li>▪ Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>▪ Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOT LINE NUMBER</b> (Substituted Benzoic acid + Triazine)	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment information call: 1-(866)-359-5660	
<b>NOTE TO PHYSICIAN</b>	
Probable mucosal damage may contraindicate the use of gastric lavage.	

**Personal Protective Equipment:**

Some materials that are chemical-resistant to this product are barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton. If you want more options, follow the instructions for category C on an EPA chemical resistance category sections chart.

**Mixers, loaders, applicators, flaggers, and other handlers 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,
- Shoes plus socks, and
- Chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

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.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Engineering controls statements:**

Mixers and loaders supporting aerial applications **at a rate greater than 3 lbs ai/A** must use a closed system that meets the requirements for dermal protection listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4) and must:

- wear the personal protective equipment required for mixers and loaders,
- wear protective eyewear if the system operates under pressure, and
- be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: chemical resistant footwear.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators, however, they need not wear chemical-resistant gloves when using an enclosed cockpit.

Flaggers supporting aerial applications must use an enclosed cab that meets the definition on the Worker Protection Standard for Agricultural Pesticides (40 CFR 170.240(d)(5)) for dermal protection.

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

<p><b>User Safety Recommendations:</b></p> <p>Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</p> <p>Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</p> <p>Users should 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.</p>
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## Environmental Hazards

Atrazine can travel (seep or leach) through soil and can enter ground water, which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply Atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable; i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sinkholes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or form the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

One of the following restrictions must be used in applying Atrazine to tile-outletted terraced fields containing standpipes:

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

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a well-ventilated area.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **CONTAINER DISPOSAL:**

**(Nonrefillable container 5 gallons or less):** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

**Residue Removal:** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**(Refillable containers up to 250 gallons or less):** This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Reseal and return the container to the point of purchase or to a designated location named at the time of purchase of this product. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC: 1-800-424-9300**