



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505T)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460-0001

EPA Reg. Number: Date of Issuance:

71085-98 2/5/26

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

CH-STO-5903

Name and Address of Registrant (include ZIP Code):

CHEMAGCO, LLC  
15401 Weston Parkway, Suite 170  
Cary, NC 27531-8637

**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 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit one copy of the final printed label for the record before you release the product for shipment.

*Continues page 2*

Signature of Approving Official:

Date:

2/5/26

Mindy Ondish, Product Manager 23  
Herbicide Branch, Registration Division (7505T)

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 § CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF:

- Basic CSF, dated 8/1/25

If you have any questions, please contact Carmen Rodia via e-mail at *Rodia.Carmen@epa.gov*.

*Enclosure: Master Label Stamped "Accepted," dated 2/5/26*

**ACCEPTED****02/05/2026**

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under  
EPA Reg. No. 71085-98

Bentazon	GROUP	6	HERBICIDE
Acifluorfen	GROUP	14	HERBICIDE

## **CH-STO-5903**

### **Herbicide**

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**For use on peanuts, rice and soybeans**

**ACTIVE INGREDIENTS\*:**

Sodium salt of bentazon...	29.2%
Sodium salt of acifluorfen...	13.4%
OTHER INGREDIENTS .....	<u>57.4%</u>
TOTAL.....	100.0%

\* Contains 2.67 pounds of bentazon and 1.33 pounds of sodium acifluorfen per gallon of formulated product..

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER / PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

<b>FIRST AID</b>	
<b>IF IN EYES</b>	<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>
<b>IF ON SKIN OR CLOTHING</b>	<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>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow. 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>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move 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>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, contact the Rocky Mountain Poison and Drug Center at 1-866-673-6671.	
<b>Note to Physician:</b> Probable mucosal damage may contraindicate the use of gastric lavage. <b>ANTIDOTE</b> —No specific antidote is available. Treat symptomatically.	

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

CHEMAGCO LLC  
15401 Weston Parkway, Suite 170  
No. Cary, NC 27513

EPA Reg. No. 71085-98  
EPA Est.

Net Contents: \_\_\_\_\_

[See] [inside][leaflet][booklet] for [additional][complete] [Precautionary Statements][and][complete][Directions for Use].

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with skin. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## **PERSONAL PROTECTION EQUIPMENT (PPE)**

### **Mixers, loaders and other handlers must wear:**

- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Protective eyewear (goggles or face shield); and
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, natural rubber  $\geq$  14 mils, polyethylene, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  14 mils

### **Applicators using engineering controls, including enclosed-cockpit aerial equipment and enclosed-cab ground equipment must wear:**

- Long-sleeved shirt and long pants;
- Shoes plus socks; and
- Protective eyewear (goggles or face shield)

### **See Engineering Controls for additional requirements and options**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separate from other laundry.

### **Engineering Controls Statement**

When handlers use closed systems, enclosed cabs, or cockpits in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d-f)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## **USER SAFETY RECOMMENDATIONS**

User should:

- Remove clothing/PPE 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**

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark, except as specified on this label for application to rice. Do not contaminate water when disposing of equipment wash waters or rinsate. Do not apply when weather conditions favor drift from target area.

## **PHYSICAL AND CHEMICAL HAZARDS**

This product is a reducing agent and should not be mixed or stored in close proximity to strong

oxidizing agents.

### **GROUND WATER ADVISORY**

Sodium acifluorfen and bentazon are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Use of this product in areas where soils are permeable

(sandy or sandy/loamy soils) and water tables are shallow could result in contamination of groundwater. Use of irrigated water in such areas will increase the likelihood of groundwater contamination.

### **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 people, either directly or through drift. Only handlers wearing PPE may be in the treatment area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. This pesticide is toxic to vascular plants and should be used strictly in accordance with the drift and run-off precautions on this label to minimize off-site exposures.

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed. This labeling must be in the user's possession during application.

#### **Pollinator Advisory Statement**

This product may adversely impact the forage and habitat of local pollinators, including the monarch butterfly (and its larvae), birds, or bats if it reaches non-target areas. Protect pollinators by following label directions to minimize spray drift.

#### **Fish Advisory Statement**

This product may be hazardous to aquatic organisms, particularly in clear, shallow water bodies that are adjacent to treated areas. Therefore, transport to water by runoff or spray drift of this product in areas where surface water is present, or intertidal areas below the mean high water mark should be avoided. Do not contaminate water when disposing of equipment wash water or rinsate.

#### **Runoff Prevention**

To protect the environment, do not allow pesticide to enter or run off into CH-STO-5903 drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run-off to water bodies or drainage systems.

### **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.

The following PPE is 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:

- Coveralls over long-sleeved shirt and long pants;
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, natural rubber  $\geq$  14 mils, polyethylene, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  14 mils;;
- Chemical-resistant footwear plus socks;
- Chemical-resistant headgear if overhead exposure; and
- Protective eyewear (goggles or face shield)

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

## Weed Resistance Management

For resistance management, CH-STO-5903 is a Group 6 and 14 herbicide. Any weed population may contain or develop plants naturally resistant to CH-STO-5903 and other herbicides in these groups. Weed species with acquired resistance to Group 6 and 14 may eventually dominate the weed population if Group 6 and 14 herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of CH-STO-5903 or other Group 6 and 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field. Whenever possible incorporate multiple weed control practices such as mechanical cultivation, biological management practices, and crop rotation.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g. higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Fields should be scouted before application to identify the weed species present and their growth stage to determine if the intended application will be effective. Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product and switch to another management strategy or herbicide with a different mode of action (MOA), if available. Treat weed escapes with an herbicide with a different MOA or use non-chemical methods to remove escapes. To the extent possible do not allow weed escapes to produce seeds, roots, or tubers.
- Contact your local extension specialist, certified crop advisors, and/or manufacturer for additional herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes. Report any incidence of non-performance of this product against a particular weed species to your retailer or CHEMAGCO LLC representative.

## I. PRODUCT INFORMATION

**Read label for complete Use Restrictions, Limitations and Application Instructions.**

**CH-STO-5903** herbicide is a soluble concentrate herbicide intended for selective postemergence control of certain broadleaf weeds in peanuts, rice, and soybeans. In addition, **CH-STO-5903** may provide partial control of some grasses.

## Mode of Action

**CH-STO-5903** contains two active ingredients. Bentazon is a Group 6 (WSSA) herbicide belonging to the benzothiadiazinone chemistry class. It inhibits photosynthesis at photosystem II site B resulting in symptoms of chlorosis that progresses to necrosis and control of emerged weeds.

Sodium acifluorfen is a Group 14 (WSSA) herbicide belonging to the PPO chemistry class. It works by inhibiting the protoporphyrinogen oxidase enzyme, a key enzyme in the production of precursor molecules needed for photosynthesis.

## Crop Tolerance

Soybeans and peanuts are tolerant to **CH-STO-5903** at the stages of growth listed. Leaf speckling, yellowing, bronzing or burning may occur, but plants generally outgrow this condition with 10 days. New growth is normal and crop vigor is not reduced.

**CH-STO-5903** has no adverse effect on rice when used according to directions and may be used on first and second (ratoon) crops.

## Rainfast Period:

Rainfall or overhead irrigation within 4 hours after application may reduce the effectiveness of CH-STO-5903.

## II. APPLICATION INSTRUCTIONS

Apply 1.0 to 1.5 pints of **CH-STO-5903** per acre as follows unless instructed differently in **Section VI. Crop-Specific Information**. Applications can be made to actively growing weeds as aerial or broadcast applications at the rates and growth stages listed. The most effective control will result from making postemergence applications of **CH-STO-5903** early, when weeds are small. Early application to weeds results in improved weed control and makes thorough spray coverage easier to obtain. Delaying application permits weeds to exceed the maximum size stated and will prevent adequate control.

**Spray Coverage:** Weeds must be thoroughly covered with spray. Always use an adequate volume of spray solution to ensure thorough coverage. Dense leaf canopies shelter smaller weeds and can prevent adequate spray coverage.

### Requirements for ground applications:

#### Ground Application Methods and Equipment (Broadcast)

**Water Volume:** Use 10 to 20 gallons of spray solution per broadcast acre for optimal performance. Increase water volume up to 50 gallons if crop or weed foliage is dense.

**Spray Pressure:** Use a minimum of 40 psi (measured at the boom, not at the pump or in the line).

**Note:** When using the lower water volume (i.e. 10 gallons per acre) or when crop and weed foliage is dense, use a minimum of 60 psi for best results.

#### Application Equipment

Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20" apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Do not use selective application equipment such as recirculating sprayers or wiper applicators.

## SPRAY DRIFT

This product can affect non-target plant species outside of the treatment area. To limit adverse effects to non-target plants, the applicator must avoid making applications when wind can facilitate off-site movement of bentazon in the direction of areas such as forested areas, riparian areas, wetlands, and areas that serve as habitat for desirable and protected animal species.

Do not apply **CH-STO-5903** by air if ornamentals or sensitive nontarget crops such as cotton, sugar beets, sunflowers, or okra are within 200 feet downwind.

### **Mandatory Spray Drift Management**

Ground boom applications:

- Do not release spray at a height greater than 4 feet above the ground or crop canopy.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes), must register between 3 and 10 miles per hour.
- Wind speed and direction must be measured on location using a windsock or anemometer (including systems to measure wind speed or velocity on an aircraft).
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- Do not apply during temperature inversion.

Aerial applications:

- Do not release spray at a height greater than 10 feet above the ground or vegetative canopy unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 641 (ASABE S641).
- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes) must register between 3 and 10 miles per hour.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Wind speed and direction must be measured on location using a windsock or anemometer (including systems to measure wind speed or velocity on an aircraft), or an aircraft smoke system.
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- Applicators must use a minimum of  $\frac{1}{2}$  swath displacement upwind at the downwind edge of the field. The boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

### **SPRAY DRIFT ADVISORIES**

The interaction of many equipment and weather-related factors determines the potential for spray drift. **THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.** Be aware of nearby Non-Target sites and environmental conditions.

### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply the largest droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!**

See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

### **Controlling Droplet Size - Ground Boom**

Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.

Nozzle Type - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce spray drift.

### **Controlling Droplet Size - Aircraft**

Number of Nozzles - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

Nozzle Orientation - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Nozzle Type - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

Boom Length - Longer booms increase drift potential. Therefore a shorter boom length is recommended.

Application Height - Application more than 10 ft. above the canopy increases the potential for spray drift.

### **BOOM HEIGHT - Ground Boom**

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and little-to-no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### **WIND**

Drift potential generally increases with wind speed. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

### **MEASURING WIND SPEED AND WIND DIRECTION**

#### **Best Management Practices for measuring wind speed and direction of wind:**

- Applicators should check and acquire the predicted wind speed and direction for the application site within 12 hours prior to conducting applications to determine the time periods wind speed is likely to fall outside the applicable thresholds.
- Applicators should reassess wind speed and direction at the application site every 15 minutes while applications are in progress.
- Measuring wind speed and direction can be done by:
  - Relying on equipment on the application equipment that measures wind speed (e.g., aerial equipment).
  - Using a tower anemometer with telemetry or handheld anemometer. Users should read user manual on how to calibrate, operate and interpret the output from an anemometer. Ground

applicators should stop every 15 minutes to take a reading with a tower anemometer with telemetry or handheld anemometer. Some anemometers may have software that would allow users to view wind measurements in real time while making an application, and, those cases, applicators would not have to stop to take measurements.

° Using a windsock. Wind can be estimated with a windsock using the strips on a windsock. The applicator should consult the user manual for the windsock on wind speed estimation and direction of wind. Applicators should look at the sock at least every 15 minutes to estimate wind speed and direction.

° Using an aircraft smoke generator. Laying down several puffs of smoke along different lines using an aircraft smoke generating system can provide an accurate view of the wind speed and direction for the application.

° Checking behind the spray rig at least every 15 minutes to see if the spray has changed direction from when the application started.

### **HOODED (OR SHIELDED) SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using hooded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

<b>Application Methods and Equipment</b>		
<b>Water Volume</b>	<b>Spray Pressure</b>	<b>Nozzle Type*</b>
5-10 gallons of water per acre	Up to 40 psi	Flat Fan
	40-60 psi	Hollow Cone

\* **Application Equipment:** Use only diaphragm-type nozzles to produce cone or fan-spray spray patterns. Nozzles must be oriented to discharge straight back with the air stream (opposite the direction of travel of the aircraft) and not more than 20° downward. Nozzles must be positioned 6-10 feet above crop.

### **Irrigation**

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth. Weeds growing under drought conditions usually are not adequately controlled.

### **Cultivation**

Do not cultivate within 5 days before or 7 days after applying **CH-STO-5903**. Cultivating 7 days after treatment may help provide season-long control.

### **Cleaning Spray Equipment**

Clean application equipment thoroughly by using a strong detergent or commercial spray cleaner according to the manufacturer's directions and then triple rinsing the equipment before and after applying this product.

## **III. ADDITIVES**

To achieve consistent weed control, one of the following additives is needed: ammonium sulfate, crop oil concentrate, nonionic surfactant, or urea ammonium nitrate. Additives may cause some leaf burn, but new growth is normal and crop vigor is not reduced. The potential for leaf burn is increased when relative humidity and temperature are high. See **Table 1 - Additive Rate Per Acre** for additive rates and **Table 2 - Additive Options for CH-STO-5903 Tank Mixes**.

### **Ammonium Sulfate (AMS)**

AMS is a dry, granular nitrogen-source fertilizer. Use only fine feed-grade or spray-grade AMS because inferior grades of AMS do not dissolve adequately and can plug spray nozzles. Do not apply AMS if applied in less than 10 gallons per acre because of potential problems with precipitation in reduced volumes. Use AMS only if it has been demonstrated to be successful in local experience.

### Nonionic Surfactant

The standard label rate is 1-2 pints of an 80% active nonionic spray surfactant per 100 gallons of water.

### Oil Concentrate

The oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the compatibility test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, see **Compatibility Test for Mix Components**. Some oil concentrates cause excessive leaf burn. Refer to your supplier for information concerning successful local experience before purchasing any oil concentrate.

### Urea Ammonium Nitrate (UAN)

Commonly referred to as 28%, 30%, or 32% nitrogen solution, UAN may be added in place of other spray additives to improve weed control. Because most nitrogen solutions are mildly corrosive to galvanized, mild steel, and brass spray equipment, rinse the entire spray system with water soon after. Do not use brass or aluminum nozzles when spraying UAN.

### Temperature and Relative Humidity Effects

The following standard will help determine the optimum additive rate to use. If the temperature and relative humidity exceed 150 (e.g. temperature of 85°F plus 70% relative humidity = 155), use the lower additive rates.

**Table 1 – Additive Rate Per Acre**

Additive	Ground Application	Air Application
AMS	2.5 pounds	2.5 pounds
Oil Concentrate	1-2 pints	1 pint
UAN Solution	4-8 pints	4 pints
Nonionic Surfactant	1-2 pints per 100 gallons	1-2 pints per 100 gallons

**Table 2 – Additive Options for CH-STO-5903 Tank Mixes**

Additive Options	Nonionic Surfactant (1-2 pints per 100 gallons)	AMS (2.5 pounds) or UAN (4-8 pints per acre)	Crop Oil Concentrate (1-2 pints per acre)	Nonionic Surfactant (1-2 pints per 100 gallons) + AMS (1-2 pounds per acre) or UAN (2-4 pints per acre)	Crop Oil Concentrate (1 pint per acre) + AMS (1-2 pounds per acre) or UAN (2-4 pints per acre)
Option A	•				
Option B		•			
Option C			•		
Option D				•	
Option E					•

## IV. MIXING INFORMATION

To ensure optimum spray coverage of weeds, apply **CH-STO-5903** herbicide to small actively growing weeds.

### **Mixing Order**

When mixing CH-STO-5903 with additives and/or other pesticides in a spray tank, add the products to be used in the following sequence.

1. **Water.** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
2. **Agitation.** Maintain constant agitation throughout mixing and application.
3. **Products in PVA Bags.** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
4. **Water dispersible products** (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions). If an inductor is used, rinse it thoroughly after the component has been added.
5. **Water-soluble products** (such as **CH-STO-5903** herbicide). If an inductor is used, rinse it thoroughly after the component has been added.
6. **Emulsifiable concentrates** (such as oil concentrate when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
7. **Water-soluble additives** (such as AMS or UAN when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
8. **Remaining quantity of water.** Maintain constant agitation during application.

See **Crop-Specific Information** for more details. Read and follow the applicable **Use Restrictions** and **Limitations and Directions for Use** on all products involved in tank mixing. The most restrictive

labeling applies to tank mixes. Make separate applications if all target weeds are not at the labeled growth stage for treatment at the same time.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **CH-STO-5903** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. Use only those tank mixes specified on CHEMAGCO LLC labeling. Local agricultural authorities may be a source of information when using other than CHEMAGCO LLC recommended tank mixes.

### **Compatibility Test for Mix Components**

Before mixing additives and/or other pesticides, always perform a compatibility jar test. For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of label rate per acre. Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. Ensure that the spray solution does not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, do not mix the ingredients in the same tank.

## V. USE RESTRICTIONS

**Table 3**

<b>Crop</b>	<b>Minimum Time from Application to Harvest (PHI)</b>	<b>Maximum Rate Per Acre Per Application</b>	<b>Maximum Rate Per Acre Per Season</b>
Peanuts	75 days	1.5 pints	3 pints
Rice	50 days	1.5 pints	1.5 pints
Soybeans	50 days	1.5 pints	3 pints

- Do not apply more than a total of 2.0 pounds of bentazon a.i. (from all sources) per acre, per calendar year.
- Do not allow livestock to graze on treated forage for soybeans or peanuts. Do not feed treated vines.
- Do not apply **sequential** applications of **Ultra Blazer** herbicide (70506-60; acifluorfen) or **CH-STO-5903** within **15 days** following the initial application of **CH-STO-5903**.
- **Crop Rotation Restriction:** Small grains must not be planted in fields treated with **CH-STO-5903** for 40 days following treatment. All other rotated crops must not be planted in fields treated with **CH-STO-5903** for 100 days following treatment. In case of crop failure, only peanuts, rice, or soybeans may be immediately replanted. Do not reapply **CH-STO-5903** if the application will exceed the maximum rate allowed per acre per season.
- **Stress:** Do not apply to weeds or crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as unsatisfactory control may result.
- Do not apply **CH-STO-5903** to crops that show injury (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged. In the Southeast, in-furrow treatments of insecticides/nematicides may predispose peanuts to injury from **CH-STO-5903**.
- Do not apply through any type of irrigation system.

## VI. SPECIFIC CROP INFORMATION

### SOYBEANS

Apply 1.0 to 1.5 pints of **CH-STO-5903** herbicide per acre to soybeans preemergence at cracking stage (initiation of soil cracking, but before soybean emergence from the soil), or postemergence to soybeans to control susceptible weeds observing the labeled pre-harvest interval.

To ensure optimum spray coverage of weeds, apply **CH-STO-5903** herbicide to small actively growing weeds. Refer to **Section II. Application Instructions** and **Table 4** for more information.

**Sequential application information:** An additional 2 pints (1.0 lb ai) of a bentazon-containing herbicide may be applied following applications totaling 3 pints of **CH-STO-5903** per acre, per season, but do not apply additional **Ultra Blazer** herbicide (70506-60; acifluorfen). An additional 3 pints of a bentazon-containing product or 1 pint of **Ultra Blazer** herbicide (70506-60; acifluorfen) may be applied following an application of 1.5 pints of **CH-STO-5903** per acre, per season.

### Crop-Specific Use Restrictions

- Do not apply more than 1.5 pints **CH-STO-5903** Herbicide (0.5 lb. ai bentazon + 0.25 lb. ai sodium acifluorfen) per application; do not apply more than 3 pints of **CH-STO-5903** per season.
- Do not apply more than a total of 2.0 pounds of bentazon a.i. (from all sources) per acre per calendar year.
- Do not make more than 2 applications per season of any bentazon-containing product.

- If two applications of **CH-STO-5903** are made, do not make the second sooner than 15 days after the first.
- Do not allow livestock to graze on treated forage for soybeans. Do not feed treated vines.
- Pre-Harvest Interval (PHI): 50 days.

### Soybean Tank Mixes

**CH-STO-5903** may be applied in a tank mix with one of the following herbicides:

<u>Tank Mix Partner</u>	<u>Additive Option</u>
Assure® II <sup>1</sup>	D or E
Basagran®	A, B, or C
Classic®	D
Concert® SP (up to 0.25 ounce)	D
FirstRate®	D
Frontier® 6.0	A, B, or C
Fusilade® DX <sup>1</sup>	D or E
Fusion® <sup>1</sup>	D or E
Matador® <sup>1</sup>	D or E
Pinnacle® (up to 0.25 ounce)	D
Poast® <sup>1</sup>	E
Poast® HC <sup>1</sup>	E
Pursuit®	D
Raptor®	D
Reliance® STS SP <sup>2</sup> (up to 0.25 ounce)	D
Resource®	C
Glyphosate	8.5-17 pounds of AMS per 100 gallons
Scepter®	D
Select® 2 EC	E
Skirmish®	D
Synchrony® STS <sup>2</sup> (up to 0.5 ounce)	E

<sup>1</sup> For best results if applying as part of a weed control program with **CH-STO-5903**, follow these guidelines:

- If the partner is applied prior to the **CH-STO-5903** application, wait 24 hours before applying **CH-STO-5903**.
- If the partner is applied following the **CH-STO-5903** application, wait 7 days before applying.

<sup>2</sup> When applying this tank mix to soybean varieties other than those designated as STS, do not add oil concentrate.

Refer to **Table 2** for the additive option appropriate for each tank mix.

### Glyphosate Tolerant Soybean Tank Mixtures

Postemergent applications of **CH-STO-5903** herbicide can be applied in a tank mixture with glyphosate containing herbicides for control of glyphosate resistant weeds. Targeted weeds must be listed on the **CH-STO-5903** label. Refer to the **CH-STO-5903** label for weeds controlled, application rates and application timing. Follow the directions on the glyphosate product label for the use of spray additives in this tank mixture. It is important to follow the **CH-STO-5903** directions for weed growth stages and application rates for effective broadleaf weed control. Apply **CH-STO-5903** and glyphosate containing herbicides only to glyphosate tolerant soybeans or severe crop injury or plant death will occur.

### PEANUTS

Apply 1.0 to 1.5 pints of **CH-STO-5903** herbicide per acre to peanuts preemergence at cracking stage (initiation of soil cracking, but before peanut emergence from the soil), or postemergence to peanuts to control susceptible weeds observing the labeled pre-harvest interval.

Sequential application information: An additional 2 pints (1.0 lb ai) of a bentazon-containing product may be applied per acre following an application of 3 pints of **CH-STO-5903** per acre, per season, but do not apply additional **Ultra Blazer** herbicide (70506-60; acifluorfen). An additional 3 pints of a bentazon-containing product or 1 pint of **Ultra Blazer** herbicide (70506-60; acifluorfen) may be applied following an application of 1.5 pints of **CH-STO-5903** per acre per season.

### Limitations

In-furrow treatments of insecticides/nematocides may predispose peanuts to injury from **CH-STO-5903**.

### Crop-Specific Use Restrictions:

- Do not apply more than 1.5 pints CH-STO-5903 Herbicide (0.5 lb. ai bentazon + 0.25 lb. ai sodium acifluorfen) per application; do not apply more than 3 pints of CH-STO-5903 per season.
- Do not apply more than a total of 2.0 pounds of bentazon a.i. (from all sources) per acre per calendar year.
- Do not make more than 2 applications per season of any bentazon-containing product.
- If two applications of **CH-STO-5903** are made, do not make the second sooner than 15 days after the first.
- Do not allow livestock to graze on treated forage for peanuts. Do not feed treated vines.
- Pre-Harvest Interval (PHI): 75 days.

### Peanut Tank Mixes

**CH-STO-5903** may be applied in a tank mix with one of the following herbicides:

<u>Tank Mix Partner</u>	<u>Additive Option</u>
Frontier® 6.0.....	A or C
Starfire® .....	A
2,4-DB .....	A

Refer to **Table 2** for the additive option appropriate for each tank mix.

**Table 4**

Weeds Controlled in Peanuts and Soybeans (including glyphosate, triazine and ALS-resistant biotypes)	Scientific Name	1.0 pint per acre		1.5 pints per acre	
		Leaf Stage <sup>a</sup> (up to)	Maximum Height	Leaf Stage <sup>a</sup> (up to)	Maximum Height
Amaranth, Palmer	<i>Amaranthus palmeri</i>	4	2"	6	<4"
, Spiny	<i>Amaranthus spinosus</i>	-	-	2	<2"
Anoda, Spurred <sup>c</sup>	<i>Anoda cristata</i>			4	2"
Balloongrass	<i>Cardiospermum halicacabum</i>	-	-	2	2"
Beggarweed, Florida <sup>d</sup>	<i>Desmodium tortuosum</i>	-	-	2	1-1/2"
Buckwheat, Wild <sup>e</sup>	<i>Polygonum convolvulus</i>	-	-	2	2" <sup>b</sup>
Buffalobur <sup>e</sup>	<i>Solanum rostratum</i>	-	-	2	2" <sup>b</sup>
Burgherkin <sup>f</sup>	<i>Cucumis anguria</i>	-	-	2	2" <sup>b</sup>
Carpetweed	<i>Mollugo verticillata</i>	-	-	Multi 6" dia.	2"
Citron (Wild Watermelon) <sup>f</sup>	<i>Citrullus lanatus</i>	-	-	2	2" <sup>b</sup>
Cocklebur <sup>g</sup>	<i>Xanthium strumarium</i>	-	-	6	6"
Copperleaf, Hophorn beam	<i>Acalypha ostryifolia</i>	2	2"	4	4"
, Virginia	<i>Acalypha virginica</i>	-	-	2	2"

Crotalaria, Showy <sup>h</sup>	<i>Crotalaria spectabilis</i>	6	6 <sup>”b</sup>	6	6”
Croton, Tropic	<i>Croton glandulosus</i> var. <i>septentrionalis</i>	1-2	<2”	2	2”
, Wooly	<i>Croton capitatus</i>	1-2	<2”	2	2”
Crownbeard, Golden	<i>Verbesina encelioides</i>	-	-	2	<2”
Eclipta	<i>Eclipta alba</i>	-	-	6	<2”
Galinsoga, Hairy	<i>Galinsoga quadriradiata</i>	-	-	4	<2”
, Smallflower	<i>Galinsoga parviflora</i>	-	-	4	<2”
Groundcherry, Cutleaf	<i>Physalis angulata</i>	-	-	2	1”
, Lanceleaf	<i>Physalis lanceifolia</i>	-	-	2	1”
Indigo, Hairy	<i>Indigofera hirsuta</i>	-	-	3	<2”
Jimsonweed	<i>Datura stramonium</i>	-	-	6	6”
Ladysthumb	<i>Polygonum persicaria</i>	4	4”	6	6”
Lambsquarters, Common <sup>i</sup>	<i>Chenopodium album</i>	-	-	6	2”
Mallow, Venice	<i>Hibiscus trionum</i>	-	-	6	2”
Morningglory, Cypressvine <sup>j</sup>	<i>Ipomoea quamoclit</i>	-	-	4	2”
, Entireleaf <sup>j</sup>	<i>Ipomoea hederacea</i>	-	-	4	2”
, Ivyleaf <sup>j</sup>	<i>Ipomoea hederacea</i>	-	-	4	2”
, Palmleaf (Willowleaf) <sup>j</sup>	<i>Ipomoea wrightii</i>			4	2”
, Purple Moonflower <sup>j</sup>	<i>Ipomoea turbinata</i>	-	-	4	2”
, Scarlet <sup>j</sup>	<i>Ipomoea coccinea</i>	-	-	4	2”
, Smallflower <sup>j</sup>	<i>Jacquemontia</i> <i>tamnifolia</i>	-	-	4	2”
, Small White (pitted) <sup>j</sup>	<i>Ipomoea lacunosa</i>	-	-	4	2”
, Tall (common) <sup>j</sup>	<i>Ipomoea purpurea</i>	-	-	4	2”
		-	-	2	2”
Mustard, Wild	<i>Sinapis arvensis</i>	2	2”	6	4”
Nightshade, Eastern Black	<i>Solanum ptycanthum</i>	-	-	6	2”
, Black	<i>Solanum nigrum</i>	-	-	6	2”
Pigweed, Palmer	<i>Amaranthus palmeri</i>	4	2”	6	<4”
, Redroot	<i>Amaranthus</i> <i>retroflexus</i>	4	<2”	6	2”
, Smooth	<i>Amaranthus hybridus</i>	4	<2”	6	3”
, Spiny	<i>Amaranthus spinosus</i>	-	-	2	<2”
Pusley, Florida	<i>Richardia scabra</i>	-	-	2	2”
Ragweed, Common	<i>Ambrosia</i> <i>artemisiifolia</i>	-	-	6	3”
, Giant	<i>Ambrosia trifida</i>	-	-	4	6”
Sesbania, Hemp <sup>h</sup>	<i>Sesbania herbacea</i>	-	-	4	6”
Sida, Prickly (Teaweed)	<i>Sida spinosa</i>	-	-	4	2”
Smartweed, Pennsylvania	<i>Polygonum</i> <i>pensylvanicum</i>	-	-	6	6”

Starbur, Bristly <sup>1</sup>	<i>Acanthospermum hispidum</i>	-	-	6	3"
Velvetleaf <sup>m</sup>	<i>Abutilon theophrasti</i>	-	-	4	2"
Waterhemp, Common	<i>Amaranthus rufus</i>	4	2"	6	<4"
,Tall	<i>Amaranthus tuberculatus</i>	4	2"	6	<4"

Annual Grasses <sup>n</sup>	Scientific Name	1.0 pint per acre		1.5 pints per acre					
		Leaf Stage <sup>a</sup> (up to)	Maximum Height	Leaf Stage <sup>a</sup> (up to)	Maximum Height <sup>b</sup>				
Foxtail, Giant <sup>n</sup>	<i>Setaria faberi</i>	-	-	2	1"				
, Green <sup>n</sup>	<i>Setaria viridis</i>	-	-						
, Yellow <sup>n</sup>	<i>Setaria pumilia</i>	-	-						
Johnsongrass, Seedling <sup>n</sup>	<i>Sorghum halepense</i>	-	-						
Panicum, Fall <sup>n</sup>	<i>Panicum dichotomiflorum</i>	-	-						
Shattercane <sup>n</sup>	<i>Sorghum bicolor</i>	-	-						
Volunteer Small Grains <sup>n</sup>		-	-						
Barley <sup>n</sup>	<i>Hordeum vulgare</i>								
Corn <sup>n</sup>	<i>Zea mays</i>								
Oats <sup>n</sup>	<i>Avena sativa</i>								
Rye <sup>n</sup>	<i>Secale cereal</i>								
Wheat <sup>n</sup>	<i>Triticum aestivum</i>								
<sup>a</sup> Do not count leaves as pairs; count each leaf separately. Do not count cotyledon leaves. Do not spray weeds in the cotyledon growth stage.									
<sup>b</sup> A second application of 1.5 pints of <b>CH-STO-5903</b> per acre can be made for controlling subsequent weed flushes or escaped weeds before they reach the maximum weed size listed. Refer to Table 3 for the maximum application rate per year									
<sup>c</sup> For regrowth or new germination, a follow-up application of Basagran herbicide may be necessary (refer to Basagran label)									
<sup>d</sup> Controlling Florida beggarweed is difficult because of the weed's long germination season. Apply <b>CH-STO-5903</b> herbicide when beggarweed seedlings have no more than 2 young expanding true leaves. Weeds at this time will not be more than 1.5" high. It is important to obtain maximum control of the earliest weed flush. Time the cultivation to give maximum control of regrowth or secondary weed flushes.									
<b>CH-STO-5903</b> will suppress or partially control weeds growing under conditions of high soil moisture and high relative humidity. Use 1.5 pints of <b>CH-STO-5903</b> herbicide per acre and 2 pints of spray surfactant per 100 gallons of spray mix unless otherwise stated. Activity depends on good soil moisture during and after the spray applications.									
<sup>e</sup> Partial control of wild buckwheat and buffalobur can usually be obtained when the seedlings have fewer than 2 true leaves. Use <b>CH-STO-5903</b> in 30 gallons of water per acre plus surfactant. Use 1.5 pints of <b>CH-STO-5903</b> herbicide per acre and 2 pints of spray surfactant per 100 gallons of spray mix unless otherwise stated. Activity depends on good soil moisture during and after the spray applications.									
<sup>f</sup> Members of the cucumber family germinate over an extended period of time. Therefore, control is difficult to obtain with a single spray. For <b>CH-STO-5903</b> to be effective, make the initial application to weeds no later than the 2-leaf growth stage. Use 1.5 pints of <b>CH-STO-5903</b> herbicide per acre and 2 pints of spray surfactant per 100 gallons of spray mix unless otherwise stated. Activity depends on good soil moisture during and after the spray applications.									
<sup>g</sup> Use 1.5 pints of <b>CH-STO-5903</b> herbicide per acre and 2 pints of spray surfactant per 100 gallons of spray mix unless otherwise stated. Activity depends on good soil moisture during and after the spray applications.									

<sup>h</sup> Sesbania and crotalaria are very sensitive to **CH-STO-5903**. Apply 1 pint of **CH-STO-5903** per acre. Effective control can be obtained at just about all plant heights; however, it is important that **CH-STO-5903** be applied prior to bloom. Applications after bloom are usually not effective. To control these weeds, time the application to occur after maximum weed emergence has taken place. Care must be exercised to make certain that crop canopies do not shade this weed from spray deposits. Waiting for the sesbania to break through the crop canopy may be advisable to control late season infestations. Use 1.5 pints of **CH-STO-5903** herbicide per acre and 2 pints of spray surfactant per 100 gallons of spray mix unless otherwise stated. Activity depends on good soil moisture during and after the spray applications.

<sup>i</sup> Suppression or partial control.

<sup>j</sup> More consistent control of morningglories can be achieved by using sequential applications of 1 pint of **CH-STO-5903**.

<sup>k</sup> The labeled rate of **CH-STO-5903** will usually kill or severely stunt wild poinsettia. Apply before the third true leaf has formed. This treatment will usually cause a height differential between soybeans and surviving wild poinsettia which will allow directed applications and even greater control. Use 1.5 pints of **CH-STO-5903** herbicide per acre and 2 pints of spray surfactant per 100 gallons of spray mix unless otherwise stated. Activity depends on good soil moisture during and after the spray applications.

<sup>l</sup> The labeled rate of **CH-STO-5903** will kill or suppress seedlings that are not past the 2-leaf stage. Applications after the 2-leaf stage are usually ineffective.

<sup>m</sup> Use AMS (or UAN) as the additive when velvetleaf is a target weed.

<sup>n</sup> **CH-STO-5903** must not be the basic component of a grassy weed or volunteer small grains management program. **CH-STO-5903** will kill or stunt many emerging volunteer small grains or grassy weeds in the 1-2 leaf stage. **CH-STO-5903** can be used for additional control of escaped grasses and volunteer grains following a pre-plant incorporated or pre-emergence herbicide.

## RICE

Apply 1.5 pints of **CH-STO-5903** per acre when rice is at the late tillering stage up to the early boot stage, which normally occurs in June or July. Rice must be past the 3-leaf stage.

### Crop-Specific Use Restrictions

- Do not apply more than 1.5 pints (0.75 lb ai) of a bentazon-containing product following an application of **CH-STO-5903**.
- Do not apply **Ultra Blazer** herbicide (70506-60; acifluorfen) to rice treated with **CH-STO-5903**.
- Do not make more than one application of **CH-STO-5903** per acre, per season.
- Do not apply more than a total of 2.0 pounds of bentazon a.i. (from all sources) per acre per calendar year.
- Do not apply **CH-STO-5903** to rice with ground equipment when field is flooded because splashing will wash **CH-STO-5903** off weed leaf surfaces and result in ineffective control.
- Do not use **CH-STO-5903** on rice fields where the commercial cultivation of catfish or crayfish is practiced.
- When applying to rice paddies, do not release paddy water from treated fields for at least 4 days after the last application to flooded paddies.
- Do not use water containing residues of **CH-STO-5903** from rice cultivation to irrigate crops other than soybeans or peanuts.
- Pre-Harvest Interval (PHI): 50 days.

## Rice Tank Mixes

CH-STO-5903 may be applied in a tank mix with one of the following herbicides:

<u>Tank Mix Partner</u>	<u>Additive Option</u>
Basagran®	A
Facet® 75 DF	A
Propanil*	A

\* Do not apply this tank mix if **Ultra Blazer** herbicide (70506-60; acifluorfen) has been previously applied. Refer to **Table 2** for the additive option appropriate for each tank mix.

## CH-STO-5903 herbicide – Rice Application Rate and Timing Table for Drained or Flooded Fields

Weeds Controlled <sup>p</sup>	1.5 Pints of CH-STO-5903 Per Acre		
	Leaf Stage	Maximum Weed Height in Drained Fields	Maximum Weed Height Above Water Level
Cocklebur	2-10	10"	6"
Dayflower	2-10	6"	5"
Ducksalad	2-4	2"	--
Gooseweed	4-6	4"	--
Sesbania, Hemp	q	**	4"
Morningglory species	up to 4	2"	1"
Redstem	up to 6	4"	3"
Redweed	4-6	6"	--
Smartweed	2-10	6"	5"
Spikerush	2-6	6"	--
Nutsedge, Yellow <sup>r</sup>	4-6	6"	5"

<sup>p</sup> Add a nonionic surfactant at a rate (concentration) of 0.25% v/v (2 pints per 100 gallons of spray solution).

<sup>q</sup> Effective control can be obtained at practically all heights provided CH-STO-5903 plus a nonionic surfactant is applied before the bloom (flowering).

<sup>r</sup> Add oil concentrate at a rate (concentration) of 1.25% v/v (2 pints per 100 gallons of spray solution) instead of a nonionic surfactant. Partial control can be expected.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Keep this product in its tightly closed original container. Do not store in areas where temperatures are below 40°F or above 100°F. Store in a cool, dry (preferably locked) area away from heat and open flame, and other pesticides, fertilizer, food or feed that is inaccessible to children and animals..

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Clean container 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  $\frac{1}{4}$  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. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate

**Steps to be taken in case material is released or spilled:** Dike and contain the spill with inert materials (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

**IMPORTANT INFORMATION  
READ BEFORE USING PRODUCT**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of CHEMAGCO LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold CHEMAGCO LLC and Seller harmless for any claims relating to such factors.

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