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06/02/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Bill Washburn
Product Registration
Arysta Lifescience NA Corporation
15401 Weston Parkway, Suite 150
Cary, NC 27513

JUN 2 2009

Subject: Notification for Label Revisions under PRN 98-10 and 2007-4
Storage & Disposal, Warranty Statement and Other Changes

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 98-10, and 2007-4 Storage & Disposal and Other Changes dated May 12, 2009 for:

EPA Registration 66330-222 ^{Trifluralin} ~~Trifluralin~~ **4 EC**

The Registration Division (RD) has conducted a review of the request(s) for applicability under PRN 98-10 and 2007-4 and finds that the label changes requested fall within the scope of PRN-98-10 and 2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

 EPA United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other:	OPP Identifier Number
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Application for Pesticide - Section I

1. Company/Product Number 66330-222	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Trifluralin 4 EC	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. NOTIFICATION Product Name JUN 02 2009	

Section - II

<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below
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Explanation: Use additional page(s) if necessary. (For Section I and Section II.)


Notification of label change per PR Notice 2007-4. This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Notification of label change per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt. No. per container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)
*Certification must be submitted			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 1.0 gal., 2.5 gal, 5.0 gal	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)			
Name Bill Washburn	Title Regulatory Manager	Telephone No: (include Area Code) 901-432-5118	
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager		
4. Typed Name Bill Washburn	5. Date 12 May 2009		



May 13, 2009

Ms Joanne Miller, PM#23
Document Processing Desk (NOTIF)
Office of Pesticide Programs – 7504P
U.S. Environmental Protection Agency
One Potomac Yard, Room S-4900
2777 South Crystal Drive
Arlington, VA 22202

Subject: Trifluralin 4 EC
EPA Reg. No. 66330-222

***Notification of Label Change per PR Notice 2007-4
and PR Notice 98-10***

Dear Ms. Miller:

Please find the following enclosed:

- Application for Pesticide Registration (Other) dated 05/12/09.
- One highlighted copy of subject label, showing all changes.
- One clean copy of the subject label.

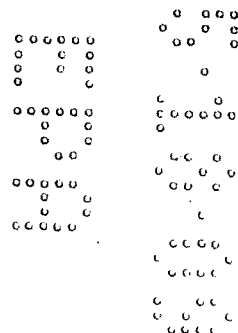
Notification of label change per PR Notice 2007-4. This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Also in this submission, we are using PR Notice 98-10 to update the name of the company, emergency telephone numbers and warranty. Arysta LifeScience North America Corporation was changed to Arysta LifeScience North America, LLC.

Should you have any questions or comments, please do not hesitate to contact me at 901-432-5118 or by e-mail at bill.washburn@arystalifescience.com

Sincerely,

Bill Washburn
Regulatory Manager



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NOTIFICATION

JUN 02 2009

PR Notice 2007-4

TRIFLURALIN 4 EC

A selective herbicide for the preemergence control of annual grasses and broadleaf weeds

ACTIVE INGREDIENT:

Trifluralin (a,a,a-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine) 44.5%

INERT INGREDIENTS: 55.5%

TOTAL 100.0%

Contains 4 pounds active ingredient per gallon
Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

Formatted: Spanish (Spain-Traditional Sort)

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

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. May pose and aspiration pneumonia hazard.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952

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

See Additional Precautionary Statements Inside

EPA Est. No. 51036-GA-001

Manufactured For:
ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

PRECAUTIONARY STATEMENTS
Hazards To Humans And Domestic Animals

WARNING

Causes substantial but temporary eye injury or skin irritation. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

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

Applicators and other handlers must wear:

1. Coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves, such as nitrile, butyl, neoprene, and/or barrier laminate.
3. Socks and chemical resistant footwear.
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure.
6. Chemical resistant apron for cleaning equipment.

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

Engineering Controls:

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

Users should:

- ## ENVIRONMENTAL HAZARDS

PHYSICAL AND CHEMICAL HAZARDS

DIRECTIONS FOR USE

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.

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 and restricted-entry intervals. 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:

1. Coveralls.
2. Chemical-resistant gloves, such as nitrile, butyl, neoprene, and/or barrier laminate.
3. Shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: May be stored in unheated facilities. Do not store near heat or flame.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple 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 $\frac{1}{4}$ 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INSTRUCTIONS and INFORMATION

APPLICATION BY CHEMIGATION

(Except Citrus, see specific chemigation instructions for citrus)

Trifluralin 4EC may be applied through properly equipped chemigation systems for weed control in certain crops as specified in "Approved Crops" section of this label. Read and follow all label instructions outlined below concerning chemigation before

applying Trifluralin 4EC by this method.

General Chemigation Directions:

Apply this product only through continuously moving center pivot, lateral move, or end tow sprinkler irrigation systems equipped for chemigation. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration you should contact state extension specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Sprinkler Chemigation Directions:

The following directions must be followed for all recommended sprinkler irrigation systems (center pivot, lateral move or end tow):

1. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the

water pressure decreases to the point that pesticide distribution is adversely affected.

6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Trifluralin 4EC should be injected continuously throughout the chemigation period. The chemigation-metering pump should be checked periodically during application to insure proper operation.
9. The injection-metering pump must be calibrated as specified by the manufacturer.
10. During chemigation, maintain agitation in supply tank at all times.
11. Trifluralin 4EC may cause some staining of plastic hoses and tanks.
12. Apply Trifluralin 4EC in sprinkler irrigation equal to 1/2 to 1 inch of water.

Chemigation System Calibration:

Sample calculation for use of Trifluralin 4EC in a chemigation system:

- * Assume, in this sample, 133 acres are to be covered by a chemigation treatment.
- * Product required, assuming 1/5 pints per acre is 199.5 pints (133 acres x 1.5 pt/acre = 199.5 pt = 25 gallons)
- * Add 25 gallons of product directly to the injection supply tank.
- * Adjust the injection system to deliver 25 gallons during the time required to apply 1 inch of water to 133 acres.

If the irrigation system requires 20 hours to apply 1 inch of water to 133 acres, the injection rate is 1.25 gal/hr and is calculated as follows:

- * $25 \text{ gal} \div 20 \text{ hr} = 1.25 \text{ gal/hr}$
 $1.25 \text{ gal/hr} = 160 \text{ fl oz/hr}$

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Proper calibration requires the injection pump to be adjusted to deliver 2.7 fl oz/min and is calculated as follows:

* $160 \text{ fl oz/hr} \div 60 \text{ min/hr} = 2.7 \text{ fl oz per min.}$

Chemigation Mixing Directions:

Undiluted Trifluralin 4EC: When used alone, the injection of undiluted Trifluralin 4EC is recommended in chemigation systems. For undiluted use, the metering pump, supply tank, and any associated equipment must be thoroughly clean and dry before Trifluralin 4EC is added to the system for injection. When injecting undiluted Trifluralin 4EC, maintain continuous agitation in the supply tank.

Diluted Trifluralin 4EC: Trifluralin 4EC may be diluted if required to achieve accurate calibration for existing equipment. Partially fill the injection supply tank with a volume of water equal to the amount of Trifluralin 4EC required (Do not add water to Trifluralin 4EC). Start agitation. Add the require amount of Trifluralin 4EC to water in the supply tank and continue mixing while filling the tank to the final volume required by the injection pump calibration. When injecting diluted Trifluralin 4EC, maintain continuous agitation in supply tank.

GENERAL PRECAUTIONS and RESTRICTIONS

Applied according to directions and under normal growing conditions Trifluralin 4EC will not harm the treated crop. Over-application may result in crop injury or a soil residue. Uneven application or improper soil incorporation of Trifluralin 4EC can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from Trifluralin 4EC. Under these conditions, delayed crop development of reduced yields may result. In Arizona, Colorado, California, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming, sugarbeets, red beets or spinach should not be planted for 12 months after a spring application or for 14 months after a fall application of Trifluralin 4EC. Plow the land to a depth of 12 inches prior to planting sugar beets to prevent the possibility of crop injury. Sorghum (milo), proso millet, corn or oats should not be planted for 14 months after a spring application or for 16 months after a fall application of Trifluralin 4EC to avoid crop injury. If land has not been irrigated, do not plant any of these crops for 18 months after a spring application or 20 months after a fall application of Trifluralin 4EC. In those portions of Kansas,

GENERAL INFORMATION

WEEDS AND GRASSES CONTROLLED BY TRIFLURALIN 4EC

Annual bluegrass (*Poa annua*)
Barnyardgrass (*Echinochloa* spp.) (Watergrass)
Brachiaria (*Brachiaria* spp.) (Signalgrass)
Bromegrass (*Bromus tectorum*) (Cheatgrass, Downy brome)
Cheat (*Bromus secalinus*) (Chess)
Crabgrass (*Digitaria* spp.), (Large crabgrass, Smooth crabgrass)
Foxtail (*Setaria* spp.) (Bottlegrass, Bristlegrass, Giant foxtail,
Green foxtail, Foxtail millet, Pigeongrass, Robust foxtail,
Yellow foxtail)
Goosegrass (*Eleusin indica*) (Silver crabgrass, Silvergrass,
Wiregrass, Yardgrass)
Johnsongrass (from seed) (*Sorghum halepense*) (Rhizome-see page 5
for special instructions for control in cotton and see page 7 for
special instructions for control in soybeans)
Jungle rice (*Echinochloa colonum*)
Panicum:
Fall panicum (*Panicum dichotomiflorum*) (Spreading panic grass-see
page 5 for special instructions in cotton and see page 7 for
special instructions in soybeans)
Guineagrass (*Panicum maximum*) (See page 12 for special
instructions)
Texas panicum (*Panicum texanum*) (Buffalograss, Coloradograss)
Itchgrass (*Rottboellia exaltata*) (Raoulgrass, See page 12 for
special instructions)
Red Rice (*Oryza sativa*) (See page 7 for suppression or partial
control directions)

Sandbur (*Cenchrus incertus*) (Burggrass)
 Sprangletop (*Leptochloa filiformis*)
 Stinkgrass (*Eragrostis cilaneensis*) (Lovegrass)
 Wild cane (*Sorghum bicolor*) (Shattercane, See page 8 for special instruction)
 Woolly cupgrass (*Eriochloa villosa*)

BROADLEAF WEEDS

Carpetweed (*Mollugo verticillata*)
Chickweed (*Stellaria media*)
Field bindweed (*Convolvulus arvensis*) (See page 13 for special instructions)
Florida pusley (*Richardia scabra*) (Florida purslane, Pusley)
Goosefoot (*Chenopodium hybridum*)
Henbit (fall application only) (*Lamium amplexicaule*)
Knotweed (*Polygonum aviculare*)
Kochia (*Kochia scoparia*) (Fireweed, Mexican fireweed)
Lambsquarters (*Chenopodium album*)
Pigweed (*Amaranthus* spp.) (Carelessweed, Prostrate pigweed, Redroot, Rough pigweed, Spiny pigweed)
Puncturevine (Western U.S. Only) (*Tribulus terrestris*) (Caltrop, Goatweed)
Purslane (*Portulaca oleracea*)
Russian thistle (*Salsola Kali*) (Tumbleweed)
Stinging nettle (*Urtica dioica*) (Nettle)

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SOIL PREPARATION

Crop Residues or Existing Weeds: Ground cover, such as crop residues or existing weeds, can interfere with the incorporation of Trifluralin 4EC into the soil. A manageable level of such ground cover will allow the Trifluralin 4EC to be uniformly incorporated into the top 2 to 3 inches of soil. If the level of the ground cover is such that this cannot be done, you must till the soil prior to the application of Trifluralin 4EC. Roughness: The soil surface should be smooth enough so that you can operate a sprayer and incorporation equipment efficiently and at speeds which insure a uniform application and incorporation of Trifluralin 4EC. General Soil Conditions: To assure uniform incorporation of Trifluralin 4EC, soil moisture conditions should be such that large clods can be broken up during the incorporation process.

SOIL TEXTURE GUIDE: The amount of Trifluralin 4EC you apply will vary with the soil texture and organic matter. A fine textured soil will require more Trifluralin 4EC per acre than a coarse soil. Choose the proper rate for each application based on the following soil texture group and specific crop recommendations.

Do not exceed recommended rates.

<u>Soil Texture</u>	<u>Soil Classification</u>
Coarse Soils (Light)	Sand, loamy sand, sandy loam
Medium Soils loam,	Loam, Silty clay loam*, silt silt sandy clay loam*
Fine Soils	Clay, clay loam, silty clay loam*, silty clay, sandy clay, sandy clay loam*

*Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominately sand or silt, they are usually classified as medium textured soils. If they are predominately clay they are usually classified as fine textured soils.

MIXING AND APPLICATION DIRECTIONS

Alone in Water: Start with a clean spray tank. Fill sprayer 1/4 to 1/2 full with clean water. Start agitation. Add correct quantity of Trifluralin 4EC, continue agitation and finish filling the tank.

Trifluralin 4EC Tank Mix in Water: Vigorous, continuous agitation is required for all tank mixes. (Sparger pipe agitators generally provide the best agitation in spray tanks). Avoid stirring or splashing air into the mixture during filling to prevent foaming. To do this, place the end of the fill pipe below the surface of the water in the spray tank. Do not allow the mixture to siphon back into the water source.

Mixing order: Fill the tank 1/4 to 1/2 full with clean water. Start the agitation. Add dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), and liquids (L) to the water and agitate until the product (s) are completely dispersed in the water. Allow additional mixing and dispersion time when using dry flowable products. Continue agitation and fill tank to 1/4 full, add the Trifluralin 4EC, mix thoroughly. Then add any solution (S) formulations, agitate and finish filling. Maintain agitation during filling and through application. If spraying and agitation must be stopped before the tank is empty, the materials may settle to the bottom in this case. It is important to resuspend all of the material in the bottom of the tank before

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continuing the spray application. A sparger agitator is particularly useful for this purpose. Sometimes it is more difficult to resuspend settled material than it is to suspend it originally. Read and carefully follow all label instructions for each material added to the tank. Premixing dry and flowable formulations with water (slurrying) and pouring the slurry through a 20 to 35 mesh wetting screen in the top of the tank will help assure good initial dispersion in the tank water. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh). If you see a buildup of material on the walls of the spray tank, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean the tank, lines, and screens thoroughly after use. As the spray volume decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to insure proper calibration and uniform application. Do not apply Trifluralin 4EC when the wind can cause drifting of spray particles which can result in non-uniform application. Trifluralin 4EC should not be applied to soils which are wet or are subject to prolonged periods of flooding as poor weed control may result.

GROUND APPLICATION: Apply Trifluralin 4EC in 5 to 40 gallons of water or liquid fertilizer per acre (broadcast basis), using any properly calibrated, low pressure herbicide sprayer that will apply the spray uniformly.

AERIAL APPLICATION: Apply Trifluralin 4EC in 5 to 10 gallons of water or liquid fertilizer per acre. Adjust pump pressure, nozzle arrangements, speed and height to provide a uniform application to the soil surface. Use swath markers or flagmen to assure proper application spray widths.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

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AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. 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).

Controlling Droplet Size

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

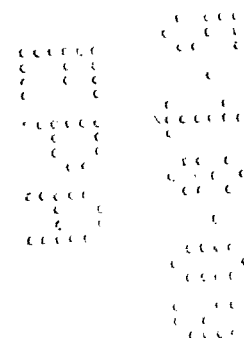
Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest



Swath Adjustment

Wind

Temperature and Humidity

Temperature Inversions

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Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

INCORPORATION DIRECTIONS
INCORPORATION EQUIPMENT-GENERAL DIRECTIONS

Use incorporation equipment that mixes Trifluralin 4EC into the top 2 to 3 inches of the final seedbed, or erratic weed control and/or crop injury may result. Incorporation equipment such as a disc will mix Trifluralin 4EC approximately half as deep as the equipment is set to operate. For example a disc set to cut 4 inches deep will incorporate most of the Trifluralin 4EC within the top 2 inches of soil.

INCORPORATION BEFORE PLANTING

Trifluralin 4EC must be incorporated one time within 24 hours after application. Then any time prior to planting, a second incorporation is necessary, this time running the equipment in a different direction from the first. You should incorporate the Trifluralin 4EC uniformly into the top 2 or 3 inches of the final seedbed.

INCORPORATION AFTER PLANTING

Check specific crop for incorporation directions after planting.

INCORPORATION IN BEDDED CULTURE

For effective weed control, Trifluralin 4EC needs to be incorporated into the top 2 to 3 inches of the final seedbed.

APPLICATION PRIOR TO BEDDING: Apply Trifluralin 4EC and incorporate it one time with recommended equipment. The bedding operation serves as the second incorporation. Do not expose untreated soil during post-bedding operations.* Application after bedding: Knock off beds to planting height before applying Trifluralin 4EC. Apply Trifluralin 4EC and incorporate it with recommended equipment that will conform to the bed shape. Do not leave untreated soil exposed.* *Avoid removal of untreated soil from the seedbed before or during the planting operation. This would expose untreated soil allowing weeds to germinate in the drill row.

RECOMMENDED EQUIPMENT

Any recommended incorporation tool may be used alone or in combination with any other recommended tool. Two incorporation passes are required unless specifically stated. The second incorporation should not be deeper than the first. DISC: Set to cut 4 to 6 inches deep and operate at 4 to 6 mph.

FIELD CULTIVATOR:

Field Cultivator: Set to cut 3 to 4 inches deep and operate at 5 mph or more. A field cultivator is defined as an implement with 3 to 4 rows of sweeps, spaced at intervals of 7 inches or less and staggered so that no soil is left unturned. Chisel points should not be used.

Combination Seedbed Conditioners: Set to cut 3 to 4 inches deep and operate at a speed of at least 5 mph. These implements are defined as three or more tillage devices combined and used as a single tool. For example, 2 to 3 rows of field cultivator C- or S-shaped shanks with an effective sweep spacing of 6 to 9 inches (staggered so that no soil is left unturned), followed by a spike-tooth or flexline harrow, followed by a ground-driven reel or basket.

ROLLING CULTIVATOR:

Set to cut 2 to 4 inches deep and operate at 6 to 8 mph. Rolling cultivators are adequate for use on coarse and medium textured soils only, except when used in sugarcane where the rolling cultivator may be used on fine textured soils.

BED CONDITIONER (DO-ALL) :

Set to cut 2 to 4 inches deep and operate at 4 to 6 mph. The do-all is adequate for use on coarse and medium textured soils only. When using the do-all in bedded culture, only one incorporation pass is required. However, two passes with a do-all are required in flat planted culture.

MULCH TREADER (OTHER SIMILAR DISC-TYPE IMPLEMENTS):

Set to cut 3 to 4 inches deep and operate at 5 to 8 mph. P.T.O.

DRIVEN EQUIPMENT (TILLERS, CULTIVATORS, HOES):

Adjust to incorporate Trifluralin 4EC into the top 2 to 3 inches of the seedbed with rotors spaced to provide a clean sweep of the soil. Only one incorporation is necessary. P.T.O. driven equipment should not be operated at a speed greater than 4 mph. Other equipment, including the flexible tine-tooth harrow (Flexline, Melroe), is also recommended but only for the special programs for which it is specified in the label.

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CULTIVATION AFTER PLANTING

Soil treated with Trifluralin 4EC may be shallow cultivated without reducing the weed control activity of Trifluralin 4EC. Do not cultivate deeper than the treated soil since this may bring untreated soil to the surface, and poor weed control may result.

APPLICATION INSTRUCTIONS

These recommendations are given as the broadcast rates of Trifluralin 4EC per acre. For band applications, decrease the amount of Trifluralin 4EC in proportion to the amount of surface treated per acre. Apply any time after January 1 when the soil can be worked and is suitable for good incorporation. Trifluralin 4EC can be applied in the fall - see specific crop for recommendations. For general fall application directions where specific recommendations are not given, see page 14. Where a rate range is shown, use the lower rate for coarser soils or soils with lower organic matter. Trifluralin 4EC should not be used on soils containing more than 10% organic matter.

COTTON - TRIFLURALIN 4 EC ALONE

Trifluralin 4EC can be applied and incorporated before or at planting, immediately after planting, or at layby. Application must not exceed 2 lb./ai. (4 pints) per year regardless of seasonal application rates.

Use for Cotton: Apply pre-plant, after planting (before crop emergence) up to and at lay-by, and in the fall.

Restriction of Use: Do not apply within 90 days of harvest. Do not apply more than 2.0 lb a.i./A per application and do not apply more than 2 lbs a.i./A per crop year (fall application thru lay-by application or pre-plant plus post-plant thru lay-by).

COTTON - Preemergence: Broadcast Rates Per Acre

Soil Texture	Areas receiving less	Areas receiving greater
	than 20" average annual rainfall*	than 20" average annual rainfall*
Coarse	1 pint	1 pint
Medium	1 1/4 to 1 1/2 pints	1 1/2 pint
Fine	1 1/2 pints	2 pints

*Use 1 1/2 pints per acre on coarse and medium textured soils and 2 pints on fine soils with 2 to 5% organic matter; use 2 pints on all soil with 5 to 10% organic matter.

COTTON - Postplant:

When incorporating Trifluralin 4EC after planting (postplant), be careful not to disturb the seed.

COTTON - Layby:

Apply and incorporate Trifluralin 4EC any time up to layby, but not less than 90 days before harvest. Direct the layby applications onto the soil between the rows and beneath emerged cotton plants. Use the same rates as for a preemergence application.

COTTON - Fall Application:

Apply and incorporate Trifluralin 4EC any time between October 15 and December 31. The ground may be left flat or bedded-up over winter. On bedded ground, knock beds down to desired height before planting, moving some treated soil from beds into furrows. Where soil is left flat over winter, be careful not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during bedding, destroy these weeds before planting. In the fall, do not apply Trifluralin 4EC to soils which are wet or subject to prolonged periods of flooding.

BROADCAST RATES PER ACRE - FALL APPLICATION ONLY:

In Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri bootheel, North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee and Texas, apply and incorporate Trifluralin 4EC at a broadcast rate of 2 pints per acre on all soil types. In Arizona, California and Nevada, apply and incorporate Trifluralin 4EC at a broadcast rate of 1 1/2 pints per acre on coarse soils and 2 pints per acre on medium and fine soils. For cotton grown in other states, apply and incorporate Trifluralin 4EC at a broadcast rate of 1 pint per acre on coarse soils; 1 1/2 pints on medium soils; 2 pints on fine soils, 1 1/2 pints on coarse soils with 2-5% organic matter; and 2 pints on soils with 5 to 10 % organic matter.

COTTON - SPECIAL USE DIRECTIONS - Fall panicum:

In Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia apply and incorporate Trifluralin 4EC at the broadcast rate of 2 pints per acre on both coarse and medium soils.

COTTON - Rhizome johnsongrass:

In all cotton-producing states except Arizona and California, you can obtain commercially acceptable control of rhizome johnsongrass by applying in accordance with the following directions for 2 consecutive years.

SOIL PREPARATION - Proper preparation of the soil before application is very important for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the top of the soil. Then follow with a disc two times before application to cut the rhizomes into small (2 to 3 inch) pieces. This should also destroy any emerged johnsongrass.

APPLICATION - Choose the one application program that best fits your cultural practices:

SPRING APPLICATION - Apply Trifluralin 4EC any time before planting in the spring for 2 years in a row. Use a broadcast rate of 2 pints per acre.

FALL APPLICATION - Apply Trifluralin 4EC between October 15 and December 31 to 2 years in a row at the same rates as a spring application for the control of rhizome johnsongrass.

INCORPORATION - Deep incorporation is essential for good rhizome johnsongrass control. Incorporate Trifluralin 4EC thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two passes are necessary, with the second pass in a different direction from the first.

CULTIVATION - Some johnsongrass plants will escape. Timely cultivations during the crop season to remove escaped plants are necessary to obtain commercially acceptable control. You cannot obtain commercially acceptable control with only 1 year of double rate Trifluralin 4EC use.

CROP ROTATION - In the season following application using the methods for control of rhizome johnsongrass described above, plant only rice and those crops for which Trifluralin 4EC can be applied as a preplant treatment or injury may result.

COTTON - Pigweed and seedling johnsongrass control: In Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, southeastern Missouri, North Carolina, South Carolina, Tennessee and southern Virginia, Trifluralin 4EC may be applied preplant at a broadcast rate of 1 to 1 1/2 pints per acre on coarse soils; 1 1/2 to 2 pints on medium soils; and 2 pints on fine soils.

COTTON PRECAUTIONS: Cotton should be planted after early season adverse weather conditions have passed, especially when using higher rate programs. Cool, wet weather early in the growth cycle causes additional stress to the cotton plant. This may result in reduced stands, delayed maturity and reduced yields.

COTTON - Trifluralin 4EC/Caparol tank mix for cotton grown in California, Arizona, New Mexico and west Texas: The Trifluralin 4EC/Caparol combination will control certain grasses and broadleaf weeds listed for Trifluralin 4EC alone plus the following weeds: Smartweed, Prickly side (Teaweed), Annual morningglory, Ragweed, Groundcherry (Annual), Mustard, Malva, Wild oat. The tank mix also controls shallow germinating seedlings of cocklebur and coffeeweed.

*Do not use on sands and loamy sands. For band applications use proportionately less.

MIXING DIRECTIONS: Carefully follow the procedures on the Caparol 80W label for making a slurry and adding it to a partially filled tank of water. After the Caparol is thoroughly mixed with the partially filled tank of water, add the Trifluralin 4EC and continue filling. Agitate continuously during the filling and spraying operation. Avoid leaving the spray mixture in the tank without constant agitation. If bypass agitation is used, the bypass line should stop at the bottom of the tank to minimize foaming.

ADDITIONAL PRECAUTIONS: The combination of Trifluralin 4EC and Caparol should not be used in the cut areas of newly leveled fields, in areas of excess salt, or where flooding over the beds if likely to happen. Do not plant cotton in tractor wheel depressions. These conditions may cause crop injury. On mulch-planted cotton, water back only after cotton seedlings are well established. Crop Rotations: Cabbage, okra, onions and peas may be planted in the fall after a spring application of Trifluralin 4EC plus Caparol. Winter barley, winter rye and winter wheat can be planted in the fall also, if they are plowed down and not used for food or feed. Refer to the Caparol label for directions, cautions and precautions.

COTTON - Trifluralin 4EC/Cotoran tank mix (except in Arizona and California): Follow recommended soil preparation and incorporation procedures for Trifluralin 4EC. The Trifluralin 4EC/Cotoran tank mix effectively controls all the annual grasses and broadleaf weeds listed for Trifluralin 4EC alone plus these additional weeds: Ryegrass, Buttonweed, Cocklebur, Groundcherry, Wright, Jimsonweed, Morningglory, Prickly side (Teaweed) Ragweed, Sesbania, Sicklepod, Smartweed, Tumbleweed.

Broadcast Rates Per Acre:

<u>SOIL TEXTURE</u>	<u>TRIFLURALIN 4EC (PINTS)</u>	<u>COTORAN 80W(LBS.)</u>
COARSE	1	1 1/4
MEDIUM	1-1/2	2
FINE	2	2 1/2

MIXING DIRECTIONS: Carefully follow the procedures on the Cotoran label for making a Cotoran slurry and adding it to a partially filled tank of water. After the Cotoran is thoroughly mixed with the partially filled tank of water, add the Trifluralin 4EC and continue filling. Agitate continuously throughout the filling and application operations. Do not leave spray mixture in tank without constant agitation. If bypass agitation is used, the bypass line should stop at the bottom of the tank to minimize foaming. Apply in 15 to 40 gallons of water per acre.

ADDITIONAL PRECAUTIONS: Do not plant crops other than cotton on the treated land within 6 months after the application of Trifluralin 4EC plus Cotoran, or crop injury may result. Do not feed foliage from treated cotton plants or give trash to livestock. Do not mix Trifluralin 4EC plus Cotoran with liquid fertilizer. West Texas Only: Do not use the tank mix of Trifluralin 4EC plus Cotoran on sandy, loamy sand or fine sandy loam soils. Do not use on cotton planted in furrows. Arkansas, Louisiana, and Mississippi Only: Use 1 pound Cotoran 80W in tank

mix with Trifluralin 4EC on sandy loam soils low in organic matter. New Mexico: Do not plant treated land with crops other than cotton until 1 year after the last application. Do not use on sandy or coarse textured soils of less than 1% organic matter.

COTTON - Trifluralin 4EC preplant followed by Cotoran overlay: Apply and incorporate Trifluralin 4EC as recommended for the specific soil texture. Then apply Cotoran as a preemergence surface treatment at 1 1/4 to 2 1/2 pounds per acre. On light silt and sandy soils low in organic matter, use the lower rate.

ADDITIONAL PRECAUTION: Refer to the Cotoran label for all cautions and precautions when using this preemergence surface treatment.

COTTON - Trifluralin 4EC preplant followed by Karmex overlay:
For cotton grown east of the Mississippi River plus Arkansas, southeastern Missouri, Louisiana and eastern Texas, incorporate Trifluralin 4EC before planting. Then follow with a preemergence application of Karmex. This will effectively control all the weeds controlled by Trifluralin 4EC alone plus these additional weeds: Ragweed, Annual groundcherry, Shepherdspurse, Velvetgrass, Dogfennel, Pennycress, Annual morningglory, Wild lettuce, Wild mustard

Broadcast Rate Per Acre:		
<u>SOIL TEXTURE</u>	<u>TRIFLURALIN 4EC (pints)</u>	<u>KARMEX 80W (pounds)</u>
COARSE	1	1/3
MEDIUM	1 1/2	2/3
FINE	2	1

ADDITIONAL PRECAUTIONS: Do not use Karmex on soils with less than 1% organic matter as crop injury may result. Do not allow livestock to graze on cotton treated with Karmex. Consult the Karmex label for additional instructions, cautions and precautions.

SOYBEAN - TRIFLURALIN 4EC ALONE SOYBEAN - PREEMERGENCE:
Follow recommended soil preparation, application and incorporation
procedures for Trifluralin 4EC.

Broadcast Rates Per Acre:	
<u>SOIL TEXTURE</u>	<u>Trifluralin 4EC*</u>
Coarse	1 pint
Medium	1 1/2 pints
Fine	2 pints

Soil Texture	Triflurilan 4EC
Coarse	1 pint
Medium	1 1/4 to 1 1/2 pints
Fine	1 1/2 pints

SOYBEAN - FALL APPLICATION:

Apply and incorporate Trifluralin 4EC anytime between October 15 and December 31. Ground may be left flat or bedded-up over winter. On bedded ground, knock beds down to desired height before planting, moving some treated soil from tops into furrows. Where soil is left flat over winter, take care during spring bedding operations to prevent turning up untreated soil. Destroy established weeds during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during listing, destroy these weeds before planting. Do not fall apply Trifluralin 4EC to soils which are wet or subject to prolonged periods of flooding, or where rice was grown the previous year. For soybeans grown in Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri bootheel, North Carolina, Oklahoma, South Carolina, Tennessee and Texas, apply and incorporate Trifluralin 4EC at a broadcast rate of 2 pints per acre on coarse and medium soils and 2 1/2 pints on fine soils. For soybeans grown in states other than those listed above, apply and incorporate Trifluralin 4EC at a broadcast rate of 1 pint per acre on coarse soils; 1 1/2 pints on medium soils; 2 pints on fine soils; 1 1/2 pints on coarse soils with 2-5% organic matter; and 2 to 2 1/2 pints on soil with 5-10% organic matter.

SOYBEAN - SPECIAL USE DIRECTIONS - FALL PANICUM:

Apply Trifluralin 4EC at the broadcast rate of 2 pints per acre on both coarse and medium soils. SOYBEAN - Pigweed and seedling johnsongrass: In Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Mississippi, southeastern Missouri, North Carolina, Oklahoma, South Carolina, Tennessee and southern Virginia, Trifluralin 4EC may be applied at a broadcast rate of 1 to 1 1/2 pints per acre on coarse soils; 1 1/2 to 2 pints on medium soils; and 2 pints on fine soils. Exception: In the state of Louisiana, 3 pints per acre is recommended on fine soils. SOYBEAN -Additional weed and grass control (Texas Gulf Coast): In the Texas Gulf Coast counties of Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton, Trifluralin 4EC may be applied up to 2 weeks

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before planting at a broadcast rate of 1 1/2 pints per acre on coarse soils; 2 pints on medium soils and 3 pints on fine soils.

SOYBEAN - Charcoal soils in Arkansas, Louisiana and Mississippi: Newly cleared land often contains high organic matter (5-10%) and charcoal from burning debris. This charcoal and/or organic matter tends to bind Trifluralin 4EC and reduce its weed control activity. Under these conditions, higher rates of Trifluralin 4EC are necessary for weed control. Increased rates, however, can cause crop injury if charcoal or organic matter is not present to bind some of the Trifluralin 4EC. In the burn row a high level of charcoal is present, consequently, poor weed control may result even with an increased rate of Trifluralin 4EC. Apply Trifluralin 4EC at the broadcast rate of 1 1/2 to 2 1/2 pints per acre on coarse soils; 2 1/2 pints on medium soils; and 3 pints on fine textured soils. Follow recommended soil preparation, application and incorporation procedures for Trifluralin 4EC. SOYBEAN - Red Rice in Arkansas, Louisiana, Mississippi and Texas only: You can obtain suppression or partial control of red rice when you apply Trifluralin 4EC at the following recommended rates. Follow recommended soil preparation and incorporation procedures for Trifluralin 4EC. Apply and incorporate Trifluralin 4EC in the spring before planting

Broadcast Rates Per Acre		
SOIL TEXTURE	TRIFLURALIN 4EC	
	Application Year 1	Application Year 2
Coarse	2 pints	1 pints
Medium	3 pints	1 ½ pints
Fine	4 pints	2 pints
COARSE SOILS WITH 2 to 5% organic matter	3 pints	1 ½ pints
Soils with 5 to 10% organic matter	4 pints	2 ½ pints

If a combination of high organic matter (5-10%) and charcoal are present in the soil, apply Trifluralin 4EC the second year at the following rates for charcoal soils in Arkansas, Louisiana, and Mississippi:

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SOIL TEXTURE	TRIFLURALIN 4EC (PINTS)
COARSE	1 1/2 TO 2 1/2
MEDIUM	2 1/2
FINE	3

For more information on charcoal soils see above. Crop Rotation: The program for red rice control in soybeans is a 2-year program. Use the rates listed for first year application and plant soybeans. The second year use the normal Trifluralin 4EC rates listed for your soil type and charcoal level and plant only those crops for which Trifluralin 4EC has been registered as a preplant treatment, or crop injury may result. Do not plant rice the second year. Rice may be planted the third year.

SOYBEAN - Rhizome johnsongrass (Eastern United States and the state of Texas):

You can obtain commercially acceptable control of rhizome johnsongrass with a double rate program applied for 2 consecutive years in accordance with the following directions. Soil Preparation - Proper preparation of the soil before application is very important for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the top of the soil. Then follow with a disc two times before application to cut the rhizomes into small (2 to 3 inch) pieces and to destroy any emerged johnsongrass. Application - Choose the one application program that best fits your cultural practices: Spring Application - Trifluralin 4EC anytime in the spring before planting for 2 years in a row. Use a broadcast rate of 2 pints per acre on coarse soils; 3 pints on medium soils; 4 pints on fine soils; 3 pints on coarse soils with 2-5% organic matter; and 4 pints on soils with 5-10% organic matter. OR Fall Application - Apply Trifluralin 4EC between October 15 and December 31 for 2 years in a row at the same rates as a spring application for the control of rhizome johnsongrass. OR Split Application - Apply Trifluralin 4EC at the same rate in both the spring and fall for 2 years in a row using the rates in the following table:

Broadcast Rates Per Acre	
SOIL TEXTURE	TRIFLURALIN 4EC -Spring and Fall
COARSE	1 pint
MEDIUM	1 1/2 pints
FINE	2 pints
Coarse soils with 2-5%	1 1/2 pints

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organic matter	
Soils with 5-10% organic matter	2 pints

Incorporation - Deep incorporation is essential for good rhizome johnsongrass control. Incorporate Trifluralin 4EC thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two passes are necessary, with the second pass in a different direction from the first. Cultivation - Some johnsongrass plants will escape. Timely cultivations during the crop season to remove escaped plants are necessary to obtain commercially acceptable control. Crop Rotation: In the season following a double rate treatment, plant only rice and those crops for which Trifluralin 4EC can be applied as a preplant treatment or injury may result.

SOYBEANS - Rhizome johnsongrass - Trifluralin 4EC/Sencor or Trifluralin 4EC/Lexone tank mix: Trifluralin 4EC/Sencor or Trifluralin 4EC/Lexone may be used for rhizome johnsongrass control and for the control of those weeds listed for Trifluralin 4EC alone. For the additional weeds controlled by Sencor or Lexone in tank mix, see below. Follow procedures for soil preparation, incorporation, and cultivation recommended in the Soybean - Rhizome Johnsongrass section. Apply Trifluralin 4EC/Sencor or Lexone up to two weeks before planting for two consecutive years at the following broadcast rates per acre:

Broadcast Rates Per Acre			
Trifluralin 4EC (pints) +		Lexone 50WP/4L	Lexone (dry flowables)
		or	or
		Sencor 50WP/4L (lbs/pints)	Sencor (dry flowables) (lbs.)
Soil Texture			
Coarse*	2	$\frac{1}{2}$	$\frac{1}{3}$
Medium	3	$\frac{3}{4}$	$\frac{1}{2}$
Fine	4	1	$\frac{2}{3}$

*Do not use on coarse soils with less than 1% organic matter. Read and follow all additional precautions listed for the Trifluralin

SOYBEAN - Wild cane (shattercane):

Follow recommended soil preparation and application procedures for Trifluralin 4EC. Wild cane (shattercane) can germinate throughout the growing season and from greater soil depth than most other weed seeds. Commercially acceptable control of wild cane can be obtained with the following increased rates of Trifluralin 4EC. Apply Trifluralin 4EC at the broadcast rate of 1 pint per acre on a coarse soil; 2 pints on a medium soil; and 2 1/2 pints on a fine textured soil. Incorporation - Deep incorporation is essential for good wild cane control. Incorporate Trifluralin 4EC thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two passes are necessary, with the second pass in a different direction from the first. Cultivation - Cultivations during the crop season will also contribute to control.

SOYBEAN PRECAUTIONS:

Soybeans should be planted after early season adverse weather conditions have passed, especially when using higher rate programs. Cool, wet weather early in the growth cycle causes additional stress to the soybean plant. This may result in reduced stands, delayed maturity and reduced yields.

SOYBEAN - TANK MIXES AND OVERLAYS - Trifluralin 4EC/Sencor or Trifluralin 4EC/Lexone tank mix:

The Trifluralin 4EC/Sencor or Trifluralin 4EC/Lexone tank mix effectively controls the annual grasses and broadleaf weeds controlled by Trifluralin 4EC alone plus these additional weeds: Jimsonweed, Mallow, Venice (Flower-of-an-hour), Mustard (wild), Prickly sida, common Ragweed, hemp Sesbania, Pennsylvania Smartweed, and Velvetleaf. Control of cocklebur, morningglory and giant ragweed (horseweed) may be erratic. Control may be improved with timely cultivation. Where cocklebur is a serious problem, an overlay of Sencor or Lexone may be preferred to the Trifluralin 4EC/Sencor or Trifluralin 4EC/Lexone tank mix. Follow recommended procedures for soil preparation, incorporation, and cultivation of Trifluralin 4EC. Mix according to instructions. The Trifluralin 4EC/Sencor or Lexone tank mix can be applied from 2 weeks before planting up to planting.

Broadcast Rates Per Acre			
Triflurilan 4EC (pints)	+	Lexone 50WP/4L	Lexone (dry flowables)
		or	or
		Sencor 50WP/4L (lbs/pints)	Sencor (dry flowables) (lbs.)
Soil Texture			
Coarse*	1	½	1/3
Medium	1 ½	¾	½
Fine	2	1	2/3

*Do not use Sencor/lexone on coarse soils with less than 1% organic matter.

Additional Precautions: Do not plant any crop other than soybeans within 4 months after treatment. Overapplication, uneven application, or improper soil incorporation may result in crop injury, herbicide residue, or erratic weed control. Additional stress factors are seedling disease, cold weather, deep planting, excessive moisture, soil pH over 7.5, high salt concentration, or drought. Any of these may weaken crop seedlings and increase possibility of damage from the tank mix. These additional factors may also delay crop development or reduce yields when Sencor or Lexone is applied. Observe all cautions and limitations on the Sencor and Lexone labels. Do not use the foliage from soybeans treated with the Trifluralin 4EC/Sencor or Lexone tank mix for feed or forage.

SOYBEAN - TRIFLURALIN 4EC preplant followed by Sencor or Lexone as an overlay:

Apply Trifluralin 4EC as a preplant incorporated herbicide. As a separate operation, make a single application of Sencor or Lexone as either a band or broadcast spray during planting or as a separate operation after planting, but before the soybeans emerge.

Do not spray Sencor or Lexone over the top of emerged soybeans, or crop injury may result. Use Direction - Follow directions on the Sencor or Lexone labels for specific instructions regarding each herbicide.

*Lexone rates for each soil texture are enclosed in brackets [].
 **Do not apply Lexone to sand or soils with less than 1/2% organic matter. Do not apply Sencor to coarse soils (sandy loam and loamy sand) containing less than 2% organic matter. Additional Sencor and Lexone precautions: Do not use Lexone or Sencor on Tracy, Semmes, Altona, Vansoy or Cokes 102 soybeans. These varieties are sensitive to Lexone or Sencor, and crop injury may result. Seed must be planted at least 1 1/2 inches but not more than 2 inches below the soil surface before a Sencor or Lexone application. Do not apply Sencor or Lexone at these rates more than once per season. Do not replant areas treated with Sencor or Lexone with any crop other than soybeans within 4 months after treatment. Injury to soybeans may occur if you use Lexone or Sencor on soils having a calcareous surface or pH of 7.5 or higher, or if you use them in conjunction with soil-applied organic phosphate pesticides. Do not use the foliage from treated soybeans for feed or forage.

SOYBEAN - Trifluralin 4EC/Amiben tank mix or overlay:

Tank mix - Amiben may be applied several days prior to planting as a broadcast tank mix with Trifluralin 4EC. Weeds controlled by this tank mix, in addition to those controlled by Trifluralin 4EC alone, are smartweed, velvetleaf and ragweed. The tank mixture should be used as a spring preplant incorporated treatment.

Overlay - Amiben may be applied broadcast or in a band over the soybean row at planting time in fields where Trifluralin 4EC has been preplant incorporated. Weeds controlled by Amiben when surface applied in addition to those controlled by Trifluralin 4EC

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alone, are: Coffeeweed (Sesbania), Wild Mustard, Black Nightshade, Prickly Sida (Teaweed), Common Ragweed, Annual Spurge, Pennsylvania Smartweed, Stinkgrass, and Velvetleaf. Apply Trifluralin 4EC as a tank mix with Amiben, or apply and incorporate Trifluralin 4EC alone followed by an overlay application of Amiben at these rates:

Broadcast Rates Per Acre		
Soil Texture	TRIFLURILAN 4EC	Amiben 2S
Coarse	1 pint	4-6* quarts
Medium	1 1/2 pints	4-6 quarts
Fine	2 pints	4-6 quarts

*Use the higher rate where you expect heavy populations of smartweed, velvetleaf, ragweed, wild mustard or black nightshade. Do not use on muck or charcoal soils. Read and observe all directions and cautions on the Amiben label.

SOYBEAN - Trifluralin 4EC /Amiben/Sencor or Lexone tank mix:
The Trifluralin 4EC/Amiben/Sencor or Lexone tank mix effectively controls all weeds listed for Trifluralin 4EC/Amiben and Trifluralin 4EC/Sencor or Lexone tank mixes. Follow recommended soil preparation, application, and incorporation procedures for Trifluralin 4EC. The Trifluralin 4EC/Amiben/Sencor or Lexone tank mix may be applied from several days prior to planting up to planting in 10 to 40 gallons of water per acre. Use screens no finer than 50 mesh. Apply the Trifluralin 4EC/Amiben/Sencor or Lexone tank mix at the following broadcast rate per acre:

Broadcast Rates Per Acre				
		Lexone 50WP/4L		Lexone (dry flowables)
		or		or
Triflurilan 4EC +		Amiben 2S +	Sencor 50WP/4L	Sencor (dry flowables)
Soil Texture				
Coarse	1	3 to 4 **	½	1/3
Medium	1 ½	3 to 4 **	½ to ¾ ***	1/3 to ½ ***
Fine	2	4 to 5	¾ ***	½ ***

***On Claion/Webster soils in Minnesota and Iowa or on similar alkaline (calcareous) soils with a pH of 7.5 or above, apply Sencor or Lexone at the rates listed below.

	Lexone 50WP/4L	Lexone (dry flowables)
	or	or
	Sencor 50WP/4L (lbs./pints)	Sencor (dry flowables) (lbs.)
Soil Texture		
Medium	$\frac{1}{2}$	$\frac{1}{3}$
Fine	$\frac{1}{2}$ to $\frac{3}{4}$ *	$\frac{1}{3}$ to $\frac{1}{2}$ *

Additional precautions: The Trifluralin 4EC/Amiben/Sencor or Lexone tank mix will not harm the treated crop when you apply it according to directions and under normal growing conditions. However, over application, uneven application or improper soil incorporation of the tank mix can result in erratic weed control or crop injury. Additional stress factors are seedling disease, cold weather, deep planting, excessive moisture, soil pH over 7.5, high salt concentration, or drought. These additional factors may weaken crop seedlings and increase the possibility of damage from the tank mix. These additional factors may also delay crop development or reduce yields. Observe all cautions and limitations of all products used in mixtures. Do not use the foliage from soybeans treated with the Trifluralin 4EC/Amiben/Sencor or Lexone tank mix for feed or forage.

SOYBEAN - Trifluralin 4EC /Vernam tank mix:
Trifluralin 4EC /Vernam tank mix effectively controls those weeds listed for Trifluralin 4EC alone plus these additional weeds: Purple nutsedge (nutgrass), Yellow nutsedge (nutgrass), Annual morningglory, Coffeeweed, and Velvetleaf. Follow recommended soil preparation procedures for Trifluralin 4EC. You may apply the Trifluralin 4EC/Vernam tank mix up to 10 days prior to planting. Incorporate the tank mix immediately after application. Apply Trifluralin 4EC/Vernam at these rates:

Soil Texture	Trifluralin 4EC	Vernam 7E
Coarse	1 pint	1 3/4 to 2 1/3 pints
Medium	1 1/2 pint	2 1/3 to 3* pints
Fine	2 pints	3 to 3 1/2 pints

ALFALFA - ESTABLISHED:

Apply and incorporate Trifluralin 4EC not less than 20 days before harvest of alfalfa hay and 21 days for alfalfa forage.

Restrictions: Do not apply more than 2 lbs a.i. per application. Do not apply within 21 days before harvest of forage, or 20 days before harvest of hay. Do not apply more than 4 lbs. a.i. per year.

Follow recommended soil preparation, application and incorporation procedures for Trifluralin 4EC. Trifluralin 4EC can be applied to established asparagus as a single or as a split application. In the winter or early spring, apply Trifluralin 4EC to asparagus after ferns are removed but before spear emergence. Or, apply after harvest in the late spring or early summer before ferning begins. Trifluralin 4EC will suppress volunteer seedling asparagus and field bindweed if you use the following recommended rates and application schedules. Follow recommended soil preparation, application and incorporation procedures for Trifluralin 4EC.

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Broadcast Rates per Acre				
Trifluralin 4EC				
Soil Texture	Split Application		Single Application	
	Before Harvest	After harvest	Before Harvest	After harvest
	(pints)		(pints)	
	+		OR	
Coarse	1	1	2	2
Medium	1 ½	1 ½	3	3
Fine	2	2	4	4

In any single calendar year, the maximum Trifluralin 4EC to apply is 2 pints per acre on coarse soils; 3 pints on medium soils; and 4 pints on fine soils.

FOR THE FOLLOWING CROP GROUPING, USE THE RATE TABLE BELOW:

CARROT,
CASTOR BEAN,
CELERY: (Direct seeded and transplant in areas receiving less than 20" average annual rainfall.)

COLE CROPS - TRANSPLANT:
Apply and incorporate prior to transplanting only. (Broccoli, Brussels Sprouts, Cabbage and Cauliflower). See next section for direct seeded.

OKRA, PEPPER - TRANSPLANT:
Apply and incorporate prior to transplanting only.

SOUTHERN PEA - (Before planting only):
Apply and incorporate Trifluralin 4EC before planting, at planting or immediately after planting, unless otherwise indicated.

Broadcast Rates Per Acre		
Trifluralin 4EC		
Soil texture	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*
Coarse	1 pint	1 pint
Medium	1 ¼ to 1 ½ pints	1 ½ pints
Fine	1 ½ pints	2 pints

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*Use 1 1/2 pints per acre on coarse and medium textured soils and 2 pints on fine soils with 2-5% organic matter; use 2 pints on all soils with 5-10% organic matter.

COLE CROPS - DIRECT SEEDED (Broccoli, Brussels Sprouts, Cabbage and Cauliflower):

See above section for transplant. For direct-seeded cole crops, apply and incorporate Trifluralin 4EC before planting at a broadcast rate of 1 pint per acre on coarse and medium soils and 1 1/2 pints on fine soils and soils with 2-5% organic matter. Direct-seeded cole crops have exhibited marginal tolerance to recommended rates of Trifluralin 4EC. Stunting or reduced stands may occur.

CUCURBITS - POSTPLANT EMERGED (Cantaloupe, Cucumber and Watermelon) Western United States including Texas:

Apply Trifluralin 4EC as a directed spray to the soil between the rows and beneath plants which are in the 3 to 4 true leaf stage.

Broadcast Rates Per Acre		
Trifluralin 4EC		
Soil texture	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*
Coarse	1 pint	1 pint
Medium	1 1/4 to 1 1/2 pints	1 1/2 pints
Fine	1 1/2 pints	2 pints

*Use 1 1/2 pints on coarse and medium textured soils and 2 pints on fine soils with 2-5% organic matter; use 2 pints on all soils with 5-10% organic matter. Set incorporation equipment to throw treated soil around the plants during incorporation.

DRY BEAN:

Trifluralin 4EC Alone: Apply and incorporate Trifluralin 4EC before planting, using the following rates:

Broadcast Rates Per Acre		
Trifluralin 4EC		
Soil texture	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*
Coarse	1 pint	1 pint
Medium	1 1/4 to 1 1/2 pints	1 1/2 pints
Fine	1 1/2 pints	2 pints

DRY BEAN - Trifluralin 4EC/Eptam tank mix:

Broadcast Rates Per Acre		Broadcast Rates Per Acre	
	Trifluralin 4EC		
Soil texture	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*	ETPAM 7E (pints)
Coarse	1 pint	1 pint	2 1/2 to 3 1/2**
Medium	1 1/4 to 1 1/2 pints	1 1/2 pints	2 1/2 to 3 1/2
Fine	1 1/2 pints	2 pints	2 1/2 to 3 1/2

DRY BEAN - Fall application for dry beans grown in Idaho, Oregon, and Washington: Apply and incorporate Trifluralin 4EC any time between October 15 and December 31 at a broadcast rate of 1 pint per acre on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; and 1 1/2 pints on fine soils. Destroy established weeds during seedbed preparation.

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FOR THE FOLLOWING CROP GROUPING, USE THE RATE LISTED BELOW.

BEANS - (Guar and Mungbean)

GREENS - Turnip greens grown for processing, Collard, Kale and Mustard Greens

MUSTARD - Grown for seed or processing for food in Minnesota, Montana and North Dakota:

Apply and incorporate Trifluralin 4EC before planting at 1 pint per acre on coarse soils and 1 1/2 pints on medium and fine soils.

BEANS - (Lima Beans and Snap Beans):

Apply and incorporate Trifluralin 4EC before planting at a broadcast rate of 1 pint per acre on coarse and medium soils and 1 1/2 pints on fine soils.

CORN (FIELD CORN) and GRAIN SORGHUM (MILO):

Apply Trifluralin 4EC to field corn or grain sorghum (8 inches or taller) as an over-the-top or directed spray to effectively control weeds listed for Trifluralin 4EC. Soil Preparation - Cultivate before a Trifluralin 4EC application to insure loose, friable soil, to remove established weeds, and to cover the base of plants with soil. Application Directions - Trifluralin 4EC should be applied and incorporated at the recommended rates for the soil texture when crop is well established (8 inches or taller). Trifluralin 4EC may be applied either as an over-the-top spray or as a directed spray. Drop nozzles should be used if foliage prevents uniform coverage of soil surface. Soil incorporation may be accomplished with only one pass of a sweep-type cultivator or a properly adjusted rolling cultivator. The sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at 6 to 8 mph. Set the middle sweeps so as to avoid exposing untreated soil. Adjust the incorporation tools to prevent crop injury.

Broadcast Rates Per Acre

Soil Texture	Trifluralin 4EC
Coarse	1/4 to 1* pint
Medium	1 to 1 1/2 pints
Fine	1 1/2 to 2 pints

Use the lower rates when you anticipate light weed pressure and the higher rates when you anticipate heavy weed pressure.

*Corn only: Apply 1 to 1 1/2 pints per acre in Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia to control

fall panicum and Texas panicum.

Precaution: Do not apply Trifluralin 4EC to corn grown for seed.

Do not apply Trifluralin 4EC to corn or sorghum as a preplant or preemergence treatment, or crop injury may occur.

HOPS:

Apply and incorporate Trifluralin 4EC while the crop is dormant. Use a broadcast rate of 1 pint per acre on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; and 1 1/2 pints on fine soils and soils with 2-10% organic matter.

MINT - (Established Peppermint and Spearmint):

Apply Trifluralin 4EC at a rate of 1 pint per acre on coarse soils; 1 1/4 pints on medium soils; and 1 1/2 pints on fine soils.

Use incorporation equipment that will insure thorough soil mixing with minimum damage to the crop.

PEA - (Dry and English):

Trifluralin 4EC Alone: Apply and incorporate Trifluralin 4EC before planting at a rate of 1 pint per acre on coarse and medium soils and 1 1/2 pints on fine soils. PEA - Trifluralin 4EC/Far-Go tank mix for pea in Idaho, Oregon and Washington: The tank mix combination of Trifluralin 4EC plus Far-Go will provide control of wild oat in addition to other annual grasses and broadleaf weeds controlled by Trifluralin 4EC. Application Rates: Broadcast 3/4 pint of Trifluralin 4EC per acre on coarse and medium soils; 1 pint of Trifluralin 4EC on fine soils. Use 1 1/4 quarts of Far-Go per acre for all soil textures. Incorporation Directions: Apply and incorporate up to 3 weeks before planting. Follow recommended incorporation procedures for Trifluralin 4EC.

Precaution: Do not apply to lentils. Leaf crinkling and delayed maturity of peas may occur, particularly on clay points in the northwest; but this is usually more than offset by a reduction of wild oat. Do not use foliage from treated peas for feed or forage. Refer to the cautions, precautions and directions on the Far-Go label.

PEA:

Fall application to dry pea and English pea in Idaho, Oregon and Washington: Apply and incorporate Trifluralin 4EC any time between October 15 and December 31 at a broadcast rate of 1 pint per acre on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; and 1 1/2 pints on fine soils. Destroy established weeds during seedbed preparation. Do not apply Trifluralin 4EC in the fall to soils which are wet or are subject to prolonged periods of flooding.

PEANUT (Spanish Peanut in Texas and Oklahoma):

Apply and incorporate Trifluralin 4EC before planting, at planting

or immediately after planting at a broadcast rate of 1 pint per acre on coarse soils. When incorporation after planting, take care not to disturb the seed.

PEANUT - Trifluralin 4EC/Vernam tank mix (Spanish Peanut in Texas and Oklahoma):

Trifluralin 4EC/Vernam tank mix effectively controls those weeds listed for Trifluralin 4EC alone plus these additional weeds: Purple nutsedge (nutgrass), Yellow nutsedge (nutgrass), Annual morningglory, Coffeeweed, Velvetleaf. Follow recommended soil preparation procedures for Trifluralin 4EC. You may apply the Trifluralin 4EC/Vernam tank mix up to 10 days prior to planting. Incorporate the tank mix immediately after application. Apply Trifluralin 4EC/Vernam at these rates:

Broadcast Rates Per Acre		
Soil Texture	Trifluralin 4EC	Vernam 7E
Coarse	1 pint	2 1/3 pints

POTATO - (All states except Maine): Apply and incorporate Trifluralin 4EC after planting, before emergence, or immediately following dragoff or after the potato plants have fully emerged.

Broadcast Rates Per Acre		
	Trifluralin 4EC	
	Areas receiving less than 20" average annual rainfall*	Areas receiving greater than 20" average annual rainfall*
Soil texture		
Coarse	1 pint	1 pint
Medium	1 ¼ to 1 ½ pints	1 ½ pints
Fine	1 ½ pints	2 pints

*Use 1 1/2 pints per acre on coarse and medium soils with 2-5% organic matter; use 2 pints on all soils with 5-10% organic matter. Set incorporation equipment so that the bed and furrow will be uniformly covered with a layer of treated soils. If the layer of treated soils is not uniform and the herbicide is concentrated over the bed, potato emergence may be retarded, and stem brittleness can occur. When applying and incorporating Trifluralin 4EC after potato plants have fully emerged, do not completely cover the foliage with treated soil. Likewise, do not completely cover foliage at subsequent cultivations. Be careful that incorporation machinery does not damage potato seed pieces or

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elongating sprouts.

POTATO - (Split application in Idaho, Oregon and Washington):
On all soils, apply and incorporate 3/4 pint of Trifluralin 4EC per acre before planting and 3/4 pint after planting when potato plants have fully emerged. Do not apply to soils containing 2% or more organic matter. Follow incorporation directions listed above for application to potato after planting.

POTATO - Trifluralin 4EC/Eptam tank mix for potatoes grown in Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota and Texas:

The Trifluralin 4EC/Eptam tank mix effectively controls the following weeds in addition to those weeds controlled by Trifluralin 4EC: Henbit (Spring applications), black nightshade, hairy nightshade, nutsedge, wild oat, common ragweed, Pennsylvania Smartweed, and Velvetleaf (Buttonweed). Follow recommended soil preparation and application procedures for Trifluralin 4EC. The Trifluralin 4EC/Eptam tank mix may be applied after planting, but prior to crop emergence. In areas where potatoes are normally dragged off, the Trifluralin 4EC/Eptam tank mix should be applied and incorporated up to or immediately following drag off.

Broadcast Rates Per Acre Broadcast Rates Per Acre			
Soil texture	Trifluralin 4EC		ETPAM 7E (pints)
	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*	
Coarse	1 pint	1 pint	1 1/4 - 7**
Medium	1 to 1 1/4 pints	1 to 1 1/4 pints	1 1/4 - 7
Fine	1 to 1 1/4 pints	1 to 2 pints	1 1/4 - 7

*Use 1 1/2 pints per acre on coarse and medium soils with 2-5% organic matter; use 2 pints on all soils with 5-10% organic matter. **Use the higher rate of Eptam 7E for nutsedge control. Precaution: Read the Eptam label before using. Observe cautions and limitations of products used in mixtures. Do not graze or feed forage to livestock from fields treated with Trifluralin 4EC/Eptam tank mix.

POTATO - Trifluralin 4EC/Eptam application before planting in Washington, Idaho and Oregon:
Trifluralin 4EC/Eptam may be applied before planting at a broadcast rate of 1/4 pint of Trifluralin 4EC per acre and 3 1/2 pints of Eptam 7E per acre on all soil textures. Incorporate immediately.

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Precaution: Do not use this tank mix both before and after planting in the same season. Read the Eptam label before using. Observe all cautions and limitations on labeling of all products used in mixtures. Do not use foliage from treated crops for feed or forage.

SAFFLOWER: Follow recommended soil preparation, application and incorporation procedures for Trifluralin 4EC. Apply and incorporate Trifluralin 4EC in the spring before planting or in the fall between October 15 and December 31.

Broadcast Rates Per Acre		
Trifluralin 4EC		
Soil texture	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*
Coarse	1 pint	1 pint
Medium	1 ¼ to 1 ½ pints	1 ½ pints
Fine	1 ½ pints	2 pints

*Use 1 1/2 pints per acre on coarse and medium textured soils and 2 pints on fine soils with 2-5% organic matter; use 2 to 2 1/2 pints on all soils with 5 -10% organic matter.

SAFFLOWER - Fall application in Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming:

Apply and incorporate Trifluralin 4EC any time between October 15 and December 31. Ground may be left flat or bedded-up over winter. On bedded ground, knock beds down to desired height before planting, moving some treated soil from tops into furrows.

Where soil is left flat over winter, take care during spring bedding operations to prevent turning up untreated soil. Destroy established weeds during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during listing, destroy these weeds before planting. Apply and incorporate Trifluralin 4EC at a broadcast rate of 1 1/2 pints per acre on coarse soils; 2 pints on medium soils; and 2 1/2 pints on fine soils. Do not apply Trifluralin 4EC in the fall to soils which are wet or are subject to prolonged periods of flooding.

SUGAR BEET:

Apply Trifluralin 4EC as a broadcast, overtop spray when plants are between 2 and 6 inches tall at a rate of 1 pint per acre on coarse soils and 1 1/4 to 1 1/2 pints on medium and fine soils. Use the higher rate for medium and fine soils in areas receiving more than 20" average annual rainfall. Set incorporation machinery to throw treated soil toward the plants in the row. Be

Precaution: Exposed beet roots should be covered with soil before a Trifluralin 4EC application to reduce the possibility of girdling.

Incorporation with a tine-tooth harrow in California, Colorado, Idaho, Montana, Nebraska, Oregon, Texas, Utah, Washington and Wyoming: A properly operated tine-tooth harrow (Flextine or Melroe) can incorporate Trifluralin 4EC for effective weed control in sugar beet. Operate the tine-tooth harrow 2 times over the field in opposing directions at a speed of 3 to 6 mph. Set the harrow to cut 1 to 2 inches deep. Be careful that the tine-tooth harrow does not damage the sugar beet taproot. Follow recommended application procedures and broadcast rates per acre for sugar beet (see preceding paragraph).

Apply and incorporate Trifluralin 4EC twice a year at a broadcast rate of 2 to 4 pints per acre for all soil textures. Make the first Trifluralin 4EC application in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second Trifluralin 4EC application in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2 to 3 inches deep before the spring application. Take care that incorporation machinery does not damage the seed pieces or emerging shoots.

Use a broadcast rate of 6 to 8 pints per acre for all soil textures. In plant cane, the beds should be formed or rolled before application. In ratoon cane, the crop residue should be removed before application. If large amounts of crop residues are present, Trifluralin 4EC will not be effective. Apply Trifluralin 4EC just before anticipated rainfall or sprinkle irrigate immediately after application.

Apply and incorporate Trifluralin 4EC at a broadcast rate of 2 to 4 pints per acre for all soil textures. Do this in the spring from before or shortly after the cane emerges up to layby. Apply the Trifluralin 4EC after the beds have been shaved or false shaved. Loosen rain-packed beds 2 to 3 inches deep before application. Be careful that incorporation machinery does not damage seed pieces or emerging shoots. You may use a rolling

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cultivator or bed chopper to incorporate Trifluralin 4EC layby applications in sugarcane on all soil textures. Follow normal incorporation directions for the rolling cultivator. Set bed chopper to cut 3 to 4 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary.

SUGARCANE - Itchgrass (Raoulgrass) control in Louisiana:

Apply and incorporate Trifluralin 4EC on either plant or ratoon cane at a broadcast rate of 4 pints per acre for all soil textures. Follow the directions above for sugarcane layby application in Louisiana and Texas (see above).

SUNFLOWER:

Trifluralin 4EC Alone: Apply and incorporate Trifluralin 4EC in the spring or in the fall between October 15 and December 31. Follow recommended soil preparation, application and incorporation procedures for Trifluralin 4EC.

Broadcast Rates Per Acre		
Trifluralin 4EC		
Soil texture	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*
Coarse	1 pint	1 pint
Medium	1 ¼ to 1 ½ pints	1 ½ pints
Fine	1 ½ pints	2 pints

*Use 1 1/2 to 2 pints per acre on coarse and medium soils with 2-5% organic matter and 2 pints on all soils with 5-10% organic matter.

SUNFLOWER - Trifluralin 4EC/Amiben tank mix or overlay:

Follow recommended soil preparation, application and incorporation procedures for Trifluralin 4EC. Amiben may be applied in a band or broadcast over sunflowers at planting in fields where Trifluralin 4EC has been incorporated prior to planting. Or, the Trifluralin 4EC/Amiben tank mix may be incorporated prior to planting. Trifluralin 4EC/Amiben tank mix improves mustard, smartweed, velvetleaf and ragweed control in addition to those weeds controlled by Trifluralin 4EC alone. Apply Trifluralin 4EC/Amiben or Trifluralin 4EC with an Amiben overlay at the following rates:

Broadcast Rates Per Acre		
Soil Texture	Triflurilan 4EC	Amiben 2S
Coarse	1 pint	4 quarts
Medium	1 ½ pints	4 to 6 quarts*
Fine	2 pints	4 to 6 quarts*

TOMATO:

Broadcast Rates Per Acre		
Trifluralin 4EC		
Soil texture	Areas receiving less than 20" average annual rainfall*	Areas receiving more than 20" average annual rainfall*
Coarse	1 pint	1 pint
Medium	1 ¼ to 1 ½ pints	1 ½ pints
Fine	1 ½ pints	2 pints

FRUIT AND NUT CROPS AND VINEYARDS - (For areas receiving more than 20" average annual rainfall.):

For new plantings of vineyards, citrus and pecan trees, apply and incorporate Trifluralin 4EC before planting at a broadcast rate of 1 pint per acre on coarse soils; 1 1/2 pints on medium soils; 2 pints on fine soils; 1 1/2 pints on fine soils with 2-5% organic matter; and 2 pints on soils with 5-10% organic matter. For non-bearing, established plantings of citrus and pecan trees and bearing plantings of grapefruit, lemon, orange, pecan, tangelo and tangerine trees, apply Trifluralin 4EC at a broadcast rate of 2 to 4 pints per acre for all soil textures. For areas receiving less than 20" average annual rainfall: For new plantings of almond, apricot, citrus, nectarine, peach, pecan and walnut trees, apply and incorporate Trifluralin 4EC before planting at a broadcast rate of 1 pint per acre on coarse soils; 1 1/4 to 1 1/2 pints on medium soils; 1 1/2 pints on fine soils; 1 1/2 to 2 pints on soils

Do not use more than 2 pints per acre on heat-treated grape rootings. For postplant applications on bearing or non-bearing established plantings of vineyards and almond, apricot, grapefruit, lemon, nectarine, orange, peach, plum, prune, tangelo, tangerine and walnut trees, apply Trifluralin 4EC at a broadcast rate of 2 to 4 pints per acre for all soil textures. Do not apply to vineyards within 60 days of harvest. In established plantings, apply Trifluralin 4EC as a directed spray to the soil and use incorporation methods not injurious to the trees or vines.

For areas receiving less than 20" average annual rainfall: You can obtain commercially acceptable control of rhizome johnsongrass with postplant applications in bearing and nonbearing, established plantings of vineyards and almond, apricot, grapefruit, lemon nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees with a Trifluralin 4EC program when applied for 2 years in a row. Soil Preparation - Work the soil thoroughly to bring the rhizomes nearer the surface. Application - Apply Trifluralin 4EC at a broadcast rate of 2 quarts per acre on all soil textures each year for 2 years in a row. Do not apply to vineyards within 60 days of harvest. Incorporation - Incorporate Trifluralin 4EC thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary with the second pass in a different direction from the first. Cultivation - Some johnsongrass plants will escape. Timely cultivations are necessary to obtain commercially acceptable control. You cannot obtain commercially acceptable control with only 1 year of Trifluralin 4EC use. Precautions: Do not use the 2 quarts rate on new plantings; or crop injury may result. Do not interplant orchards or vineyards with other crops. If the treated vineyards and orchards are diverted to other crop uses, plant only those crops for which Trifluralin 4EC has been registered as a preplant treatment for the next cropping season.

FRUIT AND NUT CROPS AND VINEYARDS - Bindweed control in California: Trifluralin 4EC can be used for the control of field bindweed in vineyards and for almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees. Apply Trifluralin 4EC at a broadcast rate of 4 pints per acre on all soil textures. Trifluralin 4EC must be applied in the spring with a specially designed spray blade which applies a thin, concentrated layer at a soil depth of 4 to 6 inches. This layer of Trifluralin 4EC prevents bindweed shoots from emerging. Land Preparation - Destroy all weeds and grasses with soil tillage

before applying Trifluralin 4EC. This tillage is necessary to prevent trash from interfering with the operation of the spray blade. Equipment - This operation requires a spray blade capable of running 4 to 6 inches below the surface of the soil. The spray blade should be equipped with nozzles located under the blade and directed so that the Trifluralin 4EC spray will be trapped under the soil which is flowing over the blade as it is pulled through the soil. Use a sufficient number of nozzles with spacing that will uniformly apply the Trifluralin 4EC underground in a thin, horizontal layer. Application - Apply Trifluralin 4EC in 40 to 80 gallons of water per acre. Operate the spray blade at a depth of 4 to 6 inches. Precaution: Some soils develop cracks as they dry after rainfall or irrigation. Field bindweed may emerge if the cracks extend through the Trifluralin 4EC layer. Prevent or eliminate cracks by shallow disking or other tillage. Avoid deep tillage which disturbs the subsurface layer. Cultivation or tillage also aids the control of germinating seeds.

SPECIAL CHEMIGATION DIRECTIONS FOR CITRUS (Florida Citrus Only)

Citrus - Ring Drench Application: Apply Trifluralin 4EC to newly planted (non-bearing) citrus as a ring drench treatment at the rate of 2.0 pints product broadcast per acre. Make only one application per year. Consult the following table for the fluid ounces of Trifluralin 4EC to add to a 500 gallon water tank for various diameter rings.

Fluid ounces of Trifluralin 4EC Per 500 Gallon For Ring Drench Application	Diameter of Ring			2.4
	3 ft.	4 ft.	5 ft.	
3 gals./tree (167 trees/tank)	0.8	1.5		
5 gals./tree (100 trees/tank)	0.5	0.9	1.4	
7 gals./tree (71 trees/tank)	0.4	0.7	1.0	
10 gals./tree (50 trees/tank)	0.3	0.5	0.7	

Citrus - Chemigation (Florida Citrus Crops Only)

Low volume sprinkler - 4 to 50 gallons per hour (gph) per emitter, drip - 0.5 to 3 gph per emitter. Point of application should be above ground.

Irrigation system should run a sufficient amount of time prior to Trifluralin 4EC injection to have all emitters functioning properly. After system is operating properly, length of injection should be such that at one period of time during the injection, the first and last emitters in the system contain Trifluralin 4EC treated water. Add Trifluralin 4EC to the supply tank already filled with the volume of water required for the injection period (this should be at least twenty (20) gallons for each pint of Trifluralin 4EC used). Maintain proper agitation in Trifluralin

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4EC injection tank. Trifluralin 4EC should be mixed in clean water and injected down-line from filters. Following Trifluralin 4EC injection, system should be flushed for a period of time sufficient to clear the line of Trifluralin 4EC. (If Trifluralin 4EC application is made during a normal irrigation cycle, injection should be made during the late stage.)

Apply this product only through low volume sprinkler (micro sprinkler) and drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have question about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system used for pesticide application to a public water unless the prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, under the supervision of the responsible person, must shut the system down and make necessary adjustments should the need arise.

Application of Trifluralin 4EC through irrigation systems should be used as a supplemental weed control practice. The addition of Trifluralin 4EC through irrigation systems will help prevent weed escapes at the irrigation point when the application is made before weed seeds germinate.

Chemigation Calibration (Citrus Crops Only)

Calculation of use rate is based on wetted area around emitters - NOT on tree acres. To determine correct amount of Trifluralin 4EC, use the following formula:

1. Treated area per each emitter=A
 $A = 3.14 \times (\text{radius} \times \text{radius})$
 Example: IF the average distance from emitter to perimeter of wetted area, measured one inch below soil surface is 13 inches, then
 $A = 3.14 \times (13" \times 13")$
 $A = 3.14 \times (169")$
 $A = 530.7 \text{ square inches}$
2. The area in square feet wet in each acre = B
 $B = \frac{A \times \text{emitters/acre}}{144}$
 Example: If there are 300 emitters per acre, then
 $B = \frac{530.7 \times 300}{144} = B = 1105.6 \text{ square feet wetted per acre.}$

- (NOTE: Select the proper rate (R) based on soil texture, weeds to control and length of control required. The total amount of Trifluralin 4EC applied in a season from broadcast, ring drench and/or supplemental chemigation applications cannot exceed the maximum rate stated above.)

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development, or yield will not be adversely affected as long as the seed is placed below the zone of soil treated with Trifluralin 4EC. Use deep or semi-deep furrow drills. Broadcast rates are 1 1/2 pints per acre on coarse and medium soils and 2 pints on fine soils. Apply Trifluralin 4EC any time from May to September prior to the fall planting of winter wheat. Incorporate - Incorporate Trifluralin 4EC with a flexible tine-tooth harrow (Flexline or Melroe) set to cut 1 to 2 inches deep and operated at 3 to 6 mph.

For thorough incorporation, two passes of the equipment in different directions over the field are necessary. Incorporate one time within 24 hours after application followed by a second incorporation prior to seeding. Do not till the soil with a disc after Trifluralin 4EC has been applied with a flexible tine harrow. Precaution: Use only deep furrow or semi-deep furrow drills. Place seed below the zone of soil into which Trifluralin 4EC has been incorporated. Do not plant wheat directly into the zone of soil treated with Trifluralin 4EC as injury to the crop or a delay in its emergence and development may occur.

WHEAT (SPRING), DURUM AND BARLEY - TRIFLURALIN 4EC ALONE:

Trifluralin 4EC is recommended as a postplant incorporated treatment to control foxtail (pigeongrass). Apply Trifluralin 4EC at a broadcast rate of 1 pint per acre on coarse and medium soils and 1 1/2 pints on fine soils. Plant 2 to 3 inches deep in a well-tilled seedbed. Apply Trifluralin 4EC after seeding but before the crop emerges. To incorporate, use flex-tine or diamond harrows operated two times in different directions, at speeds of at least 5 mph. Incorporate by operating equipment 1 to 1 1/2 inches deep. Application and the first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

WHEAT (SPRING), DURUM, BARLEY (FALL APPLICATION): Foxtail/Pigeon-grass control: Trifluralin 4EC may be fall applied for foxtail/pigeongrass control in spring wheat, durum and barley planted the following spring. Trifluralin 4EC may be applied to ground that has a manageable trash level, has been fallowed or pretilled. The first incorporation is required within 24 hours after application. A second incorporation is required prior to planting to destroy emerged weeds and to ensure an even distribution of Trifluralin 4EC treated soil.

Broadcast Rates Per Acre	
Soil Texture	Trifluralin 4EC
Coarse	1 pint
Medium	1 pint
Fine	1 1/2 pints

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Incorporation Directions - Any of the following tools are recommended for fall incorporation. The disc or field cultivator may be used for the spring incorporation pass. Care should be taken to operate the tool at a more shallow depth than the fall incorporation.

1. Chisel plow: May be used for the first pass only. Operate at 4-5 inches deep at 4-6 mph. A chisel plow is defined as having 3 rows of up to 18-inch sweeps on no greater than 12-inch centers. Stagger sweeps so that no soil is left unturned.
2. Tandem disc: Operate at 3-4 inches deep at 4-6 mph
3. Field Cultivator: Operate at 3-4 inches deep at 5 mph or more. A field cultivator is defined as having 3 to 4 rows of sweeps with "c" or "s" shaped shanks, spaced 7 inches or less and staggered so that no soil is left unturned.

Planting Directions - Wheat, durum, or barley should be approximately 2 inches deep. Precaution - While use of this practice may result in a stand reduction, slight stand reductions do not normally affect yield.

WHEAT (SPRING), DURUM AND BARLEY - Trifluralin 4EC/Far-Go tank mix: Trifluralin 4EC/Far-Go applied as a postplant incorporated treatment will control foxtail (pigeongrass) and wild oat. Plant 2 to 3 inches deep in a well-tilled seedbed. Apply Trifluralin 4EC/Far-Go after seeding but before crop emerges. To incorporate, use flex-tine or diamond harrows two times, operated in different directions, at speeds of at least 5 mph. Incorporate by operating equipment 1 to 1 1/2 inches deep. Application and the first incorporation should be done in the same operation if possible. If not, incorporate immediately after application.

Broadcast Rates Per Acre			
Soil Texture	Trifluralin 4EC		Far-Go
	Durum Spring Wheat	Durum Spring Wheat	Barley
	(pints)	(pints)	(pints)
Coarse	1	2 1/2	2
Medium	1	2 1/2	2
Fine	1 1/2	2 1/2	2

Precaution: Overapplication may result in crop injury. Read the Far-Go label carefully before using.

FALL APPLICATION - General: (Areas receiving more than 20" average annual rainfall): See specific crop for recommendations. For all crops for which there are no specific fall application instructions and for which Trifluralin 4EC is recommended as a preemergence application use the rates listed for spring applications. Do not apply Trifluralin 4EC in the fall for sugarbeets, potatoes and direct-seeded tomatoes. In most states apply and incorporate Trifluralin 4EC any time between October 15 and December 31. In Minnesota, Montana, North and South Dakota, apply and incorporate Trifluralin 4EC any time between September 1 and December 31. Ground may be left flat or bedded-up over winter. On bedded ground, knock beds down to desired height before planting, moving some treated soil from beds into furrows. Where soil is left over winter, be careful not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during bedding, destroy these weeds before planting. Do not apply Trifluralin 4EC in the fall to soils which are wet, are subject to prolonged periods of flooding, or where rice was grown the previous year.

FERTILIZER USE DIRECTIONS - APPLICATION WITH LIQUID FERTILIZERS

Trifluralin 4EC may be mixed with most liquid fertilizer materials. The combination of Trifluralin 4EC with solutions and suspension-type fertilizers has provided weed and grass control equal to the same rates of Trifluralin 4EC applied in water. Follow Trifluralin 4EC label recommendations regarding rates per acre, crops, incorporation directions, special instructions, cautions and special precautions. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and applications are the responsibility of the individual and/or company selling the fertilizer and chemical mixture. Testing for Tank Mix Compatibility in Liquid Fertilizers: Trifluralin 4EC alone or in tank mixture with dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), or solutions (S) may not combine properly with some fluid fertilizer materials. Small quantities should always be tested before full scale mixing. This will determine whether a compatibility agent is needed, and which agent does the best job. The seven agents listed below have been thoroughly tested. There are many other surfactants on the market which were not designed for use with liquid fertilizers. Use the following test to select the correct agent for your mixture. 1. Put 1 pint of the liquid fertilizer in a quart jar. 2. Add 1 to 4 teaspoonful(s) of the dry flowable, WP, AS, F or L formulation (depending on the recommended rate per acre) to the liquid fertilizer. Close jar and agitate until the materials are dispersed evenly in the fertilizer. If the

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materials do not disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer. 3. After dispersing the materials (Step 2), add 3 to 4 teaspoonsful of Trifluralin 4EC to the jar and shake well. Add solution herbicides to the mixture last and agitate. Observe the jar for about 10 minutes. If the materials rise to the surface and form a thick layer (oily curds) which will not redisperse when agitated, a compatibility agent is needed. If the mixture is easily redispersed to its original state with slight agitation, no agent is needed but good agitation must be provided in the fertilizer spray tank. 4. If the need for a compatibility agent is shown in Step 3, use a clean quart jar, start at Step 1 above, add 1/2 teaspoon of the compatibility agent to the liquid fertilizer, mix well then repeat steps 2 and 3. An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separating or oil rising to the surface for one half hour or longer. If slight separation does occur, 2 to 3 inversions of the jar should give a uniform remix. If oily curds form which will not redisperse, more agent or another agent should be tried. Use a clean jar for each test. The compatible mixture will have a uniform appearance and will be relatively easy to keep mixed with gentle agitation of the jar.

LIQUID FERTILIZER MIXING INSTRUCTIONS

Trifluralin 4EC in Liquid Fertilizer Emulsifiable concentrates, such as Trifluralin 4EC can be mixed with liquid fertilizers. In all cases, continuous agitation is required to prevent the Trifluralin 4EC from rising to the surface as an oily layer. When necessary, (see Testing for Tank Mix Compatibility in Liquid Fertilizers, above) a compatibility agent can be used to cause the Trifluralin 4EC to emulsify properly (i.e., have a milky appearance rather than oily layer). The use of compatibility agents is especially important when tank mixing emulsifiable concentrates, with dry flowables, wettable powders, aqueous suspensions, flowables, liquids, or solutions in liquid fertilizer. If the emulsion is not properly formed and the Trifluralin 4EC rises to the surface of the fertilizer as an oil ("oils out"), the oil may combine with the wettable powder, flowable, or suspension to form oily curds (viscous phase) which is difficult to redisperse. Any one of the compatibility agents listed below is helpful in causing liquid concentrates to form non-oiling mixtures with liquid fertilizers. These compatibility agents can be used at rates as low as 1 1/2 to 2 pints per ton of liquid fertilizer and should be mixed well with the fertilizer before adding the liquid concentrate. Read the label on the compatibility agent and follow the directions.

1. Sponto 168D (Witco Chemicals Co., Chicago, IL)
2. Compat (Farm Chemicals, Inc., Aberdeen, NC)
3. Unite (Hopkins Ag Chemical, Madison, WI)

- ## APPLICATION

INCORPORATION

TRIFLURALIN 4EC APPLICATION WITH DRY BULK FERTILIZERS

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JUN 02 2009

Warranty and Disclaimer Statement

Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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Cotoran*-Fluometuron, Ciba-Geigy Corporation
Eptam*-EPTC, Stauffer Chemical Company
Far-Go*-triallate, Monsanto Agricultural Products Company Karmex*-diuron, E.I. duPont de
Nemours and Company Lexone*-metribuzin, E. I. duPont de Nemours and Company
Sencor*-mitribuzin, Bayer, GmbH
Vernam*-vernolate, Stauffer Chemical Company