

241-343

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03-23-2004

MAR 23 2004

Rodney C. Akers, Ph.D
BASF Corporation
P.O. Box 400
Princeton, NJ 08543-0400

Dear Dr. Akers:

SUBJECT: Label Amendment - Adding Rapeseed Use Back on Label
Tri-4 HP Herbicide
EPA Registration No. 241-343
Your Application Dated July 9, 2002

The label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. The amended label supersedes all previously accepted labels. A stamped copy of the label is enclosed for your records. Please submit one copy of the final printed label before you release the product for shipment.

Sincerely yours,

ISI

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure

CONCURRENCES								
SYMBOL	7505C							
SURNAME	JIMiller							
DATE	Mar 23, 2004							

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BASF

ACCEPTED
MAR 23 2004
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 241-343

TRI-4[®] HF

herbicide

EMULSIFIABLE CONCENTRATE
SELECTIVE HERBICIDE FOR THE PRE-EMERGENCE CONTROL
OF ANNUAL GRASSES AND BROADLEAF WEEDS

ACTIVE INGREDIENT:
TRIFLURALIN: α, α, α -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine 42.8%
INERT INGREDIENTS*: 57.2%
TOTAL 100.0%

*Contains Petroleum Distillate
Contains 4 pounds of active ingredient per gallon.

EPA Reg. No. 241-343

EPA Est. No. ???-??-???

KEEP OUT OF REACH OF CHILDREN
WARNING!/AVISO!

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.)

See inside for Additional Precautionary Statements
See Directions for Use Inside

In case of an emergency endangering life or property
involving this product, call day or night 800-832-HELP.

Net Contents: 110 Gallons

BASF Corporation
26 Davis Drive, Research Triangle Park, NC 27709

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

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

FIRST AID

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. Call a poison control center or doctor for treatment advice.

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 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 the poison control center or doctor.

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

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

NOTE TO PHYSICIAN: Because of increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are made of any barrier laminate, butyl rubber, nitrile rubber or viton. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Mixers, loaders, applicator and all other handlers must wear:

- long-sleeved shirt and long pants,
- socks and shoes,
- goggles or face shield, and
- chemical resistant gloves

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.

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

User Safety Recommendations:

Users should:

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

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. **DO NOT** apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

PHYSICAL AND CHEMICAL HAZARDS

DO NOT use or store near heat or open flame.

This product is a mild reducing agent.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

DO NOT apply this product through any type of irrigation system unless the label instructions on chemigation are followed.

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- coveralls
- chemical-resistant gloves
- socks plus shoes

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

STORAGE. Avoid freezing. Store above 40°F. If frozen, poor weed control may result. **DO NOT** store near heat or open 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 FOR 2.5 GALLON. **DO NOT** reuse empty containers. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONTAINER DISPOSAL FOR BULK. Return empty container to point of purchase.

GENERAL INFORMATION

TRI-4 HF is a herbicide which when incorporated into the soil provides long-lasting control of annual grasses and broadleaf weeds; it controls weeds by killing their seeds as they germinate. It does not control established weeds. Incorporation of TRI-4 HF assures effective control regardless of weather conditions and permits shallow cultivation, rotary hoeing and hand hoeing without reducing its weed control activity.

Following the use of this product and chemically related products with the same mode of action, naturally occurring biotypes* of some of the weeds listed on this label cannot be effectively controlled by this and related products. This product should be tank-mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control of resistant biotypes.

*A weed biotype is a naturally occurring individual within a given species that has a slightly different, but distinct genetic makeup from other individuals.

See your BASF representative for additional information.

WEEDS AND GRASSES CONTROLLED

GRASSES	
Annual bluegrass	<i>Poa annua</i>
Barnyardgrass (Watergrass)	<i>Echinochloa sp.</i>
Brachiaria (Signalgrass)	<i>Brachiaria sp.</i>
Bromegrass (Cheatgrass, Downy brome)	<i>Bromus tectorum</i>
Cheat (Chess)	<i>Bromus secalinus</i>
Crabgrass (Large crabgrass, Smooth crabgrass)	<i>Digitaria sp.</i>
Fall panicum	<i>Panicum dichotom.</i>
Foxtails (Bottlegrass, Bristlegrass, Giant foxtail, Green foxtail, Pigeongrass, Robust foxtail, Yellow foxtail)	<i>Setaria sp.</i>
Goosegrass (Silver crabgrass, Silvergrass, Wiregrass, Yardgrass)	<i>Elesine indica</i>
Guineagrass	<i>Panicum maximum</i>
Johnsongrass (Seedling and Rhizome)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa col.</i>
Raouigrass (Itchgrass)	<i>Rottboellia exalt.</i>
Sandbur (Burgrass)	<i>Cenchrus incertus</i>
Sprangletop	<i>Leptochloa filiflor.</i>
Stinkgrass (Lovegrass)	<i>Eragrostis cilian.</i>

GRASSES

Texas Panicum (Buffalograss, Coloradograss)	<i>Panicum texanum</i>
Wild cane (Shattercane)	<i>Sorghum bicolor</i>
Woolly Cupgrass	<i>Eriochloa villosa</i>

BROADLEAF WEEDS

Carpetweed	<i>Mollugo verticillata</i>
Chickweed	<i>Stellaria media</i>
Field Bindweed (See instructions on page 14)	<i>Convolvulus arvensis</i>
Florida pusley (Florida purslane, Mexican Clover, Pusley)	<i>Richardia scabra</i>
Goosefoot	<i>Chenopodium hybridum</i>
Henbit	<i>Lamium amplexicale</i>
Knotweed	<i>Polygonum aviculare</i>
Kochia (Fireweed)	<i>Kochia scoparia</i>
Lambsquarters	<i>Chenopodium album</i>
Pigweeds (Carelessweed, Prostrate Pigweed, Redroot, Rough Pigweed, Spiny Pigweed)	<i>Amaranthus sp.</i>
Puncturevine (Caltrop)	<i>Tribulus terrestris</i>
Purslane	<i>Portulaca oleracea</i>
Russian thistle (Tumbleweed)	<i>Salsola kali</i>
Stinging nettle (Nettle)	<i>Urtica dioica</i>

TRI-4 HF, in mixture with other products, will control the following additional weeds:

TRI-4 HF/SENCOR¹ OR LEXONE² TANK-MIX
(see Soybean section for Instructions)

Jimsonweed	<i>Datura stramonium</i>
Mallow, Venice (Flower-of-an-hour)	<i>Hibiscum trionum</i>
Mustard, wild (Charlock, Field mustard)	<i>Brassica kaber</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
Sesbania, hemp (Coffeeweed, Indigo)	<i>Sesbania exaltata</i>
Smartweed, annual (Pennsylvania smartweed, Smartweed)	<i>Polygonum pensylvanicum</i>
Prickly sida (Teaweed, Spiny sida)	<i>Sida spinosa</i>
Velvetleaf (Butterprint, Buttonweed, Cottonweed, Elephant's ear, Indian mallow, Piermarker)	<i>Abutilon theophrasti</i>

Control of cocklebur, morningglory and giant ragweed may be erratic ranging from poor to excellent depending upon soil temperature, time of weed germination, depth of weed seed in the soil and amount and timing of soil moisture. Control may be improved with timely cultivation.

TRI-4 HF/SCEPTER[®] PREPLANT TANK-MIX OR OVERLAY
(see Soybean section for instructions)

Cocklebur (Common)**	<i>Xanthium strumarium</i>
Jimsonweed	<i>Datura stramonium</i>
Morningglory (Pitted)	<i>Ipomoea lacunosa</i>
(Smallflower)	<i>Jacquemontia tamnifolia</i>
Mustard (Wild)	<i>Brassica kaber</i>
Nightshade (Eastern Black)*	<i>Solanum nigrum</i>
Pigweeds (Palmer)**	<i>Amaranthus palmeri</i>
(Smooth)**	<i>Amaranthus hybridus</i>
(Tall waterhemp)**	<i>Amaranthus tuberculatus</i>
Poinsettia (Wild)**	<i>Euphorbia heterophylla</i>
Ragweed (Common)	<i>Ambrosia artemisiifolia</i>
(Giant)*	<i>Ambrosia trifida</i>
Smartweed (Ladysthumb)	<i>Polygonum persicaria</i>
Smartweed (Pennsylvania)	<i>Polygonum pensylvanicum</i>
Sunflower (Common)	<i>Helianthus annuus</i>
Velvetleaf*	<i>Abutilon theophrasti</i>
Venice Mallow	<i>Hibiscus trionum</i>

*Controlled by preplant incorporated treatments only.

**May also be controlled by preplant incorporation with TRI-4 HF followed by postemergence treatment of SCEPTER.

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TRI-4 HF/EPTAM[®] TANK-MIX
(see Dry Bean section for Instructions)

Henbit	<i>Lamium amplexicale</i>
Nightshade, black	<i>Solanum nigrum</i>
Nightshade, hairy	<i>Solanum sarrachoides</i>
Nutsedge (Nutgrass, Purple nutsedge, Yellow nutsedge)	<i>Cyperus sp.</i>
Wild oat	<i>Avena fatua</i>

TRI-4 HF/CAPAROL⁴ TANK-MIX
(see Cotton section for Instructions)

Smartweed	<i>Polygonum pensylvanicum</i>
Prickly sida (Teaweed)	<i>Sida spinosa</i>
Annual morningglory	<i>Ipomoea sp.</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
Groundcherry, annual	<i>Physalis sp.</i>
Mustard, wild mustard	<i>Brassica kaber</i>
Malva	<i>Malva sp.</i>
Wild oat	<i>Avena fatua</i>

The tank mix also controls shallow germinating seedlings of cocklebur and coffeeweed.

TRI-4 HF/COTORAN⁴ TANK-MIX OR OVERLAY
(see Cotton section for Instructions)

Buttonweed	<i>Abutilon theophrasti</i>
Cocklebur	<i>Xanthium strumarium</i>
Goathead	<i>Tribulus terrestris</i>
Groundcherry, annual	<i>Physalis sp.</i>
Jimsonweed	<i>Datura stramonium</i>
Morningglory, annual	<i>Ipomoea sp.</i>
Prickly sida	<i>Sida spinosa</i>
Ragweed	<i>Ambrosia artemisiifolia</i>
Ryegrass	<i>Lolium sp.</i>
Sesbania	<i>Sesbania exaltata</i>
Sicklepod	<i>Cassia obtusifolia</i>
Smartweed	<i>Polygonum pensylvanicum</i>
Tumbleweed	<i>Amaranthus albus</i>
Velvetleaf	<i>Abutilon theophrasti</i>

TRI-4 HF PREPLANT FOLLOWED BY KARMEX² OVERLAY
(see Cotton section for Instructions)

Dogfennel	<i>Eupatorium capillifolium</i>
Groundcherry, annual	<i>Physalis sp.</i>
Morningglory, annual	<i>Ipomoea sp.</i>
Pennycress	<i>Thlaspi sp.</i>
Ragweed	<i>Ambrosia artemisiifolia</i>
Shepherdspurse	<i>Capsella bursa pastoris</i>
Velvetgrass	<i>Hulcus lanatus</i>
Wild lettuce	<i>Lactuca sp.</i>
Wild mustard	<i>Brassica kaber</i>

TRI-4 HF/VERNAM³ TANK-MIX
(see Soybean and Peanut sections for instructions)

Morningglory, annual	<i>Ipomoea sp.</i>
Coffeeweed	<i>Sesbania exaltata</i>
Purple nutsedge	<i>Cyperus rotundus</i>
Yellow nutsedge	<i>Cyperus esculentus</i>
Velvetleaf	<i>Abutilon theophrasti</i>

TRI-4 HF/AVADEX⁵ TANK-MIX (See Peas and Wheat sections for instructions)

In Peas and Spring Wheat
Wild oat *Avena fatua*

SOIL PREPARATION

A good soil preparation is essential for best results: destroy existing weeds before herbicide application. Chop and thoroughly mix crop residues into the soil to a depth of at least 4 to 6 inches by deep plowing or discing before application. Use machinery that breaks up large clods.

SOIL TEXTURE

Before application, determine soil texture in order to apply the correct rate. Rates given in this booklet refer to the following soil texture groups:

- Coarse soils: sand, loamy sand, sandy loam
 - Medium soils: loam, silty clay loam, silt loam, 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 predominantly sand or silt, they are usually classified as medium textured soils. If they are predominantly clay, they are usually classified as fine textured soils.

APPLICATION DIRECTIONS

TRI-4 HF is an emulsifiable concentrate which must be mixed with water and applied as a spray before or in the same operation as soil incorporation.

When TRI-4 HF is used in combination with another herbicide, refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosage rates should be exceeded. TRI-4 HF cannot be mixed with any product containing a label prohibition such mixtures.

GROUND APPLICATION

Apply in 10 to 40 gallons of water/acre (broadcast basis) using any properly calibrated low-pressure sprayer that will uniformly apply the spray. Pour the recommended amount of product into the spray tank during the filling operation and mix thoroughly before spraying. As the amount of water decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily.

Do not apply the herbicide to soils which are wet or in poor condition or to soils which are subject to prolonged periods of flooding.

AERIAL APPLICATION

For best results apply to a dry soil surface at a spray volume of from 5 to 10 gallons/acre. Adjust pump pressure, nozzle arrangements, flying speed and height to provide uniform application. Use markers or flagmen to assure proper application spray widths. Do not apply when the wind is blowing at a velocity of 5 mph or greater.

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 forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 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. The applicator should be familiar with and take into account the information covered in the 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 height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

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).

APPLICATION THROUGH OVERHEAD SPRINKLER IRRIGATION SYSTEMS (CHEMIGATION)

TRI-4 HF can be applied through moving, properly equipped sprinkler irrigation systems for weed control in several crops. Soil incorporation is not required with TRI-4 HF when applied through sprinkler irrigation when 0.5-1 inch of irrigation is applied depending on the crop. Read and follow all label instructions before application.

Apply this product only through continuously moving center pivot, lateral move, or end row sprinkler 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 questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

The irrigation system must be correctly calibrated (with water only) to ensure that the recommended rate of TRI-4 HF is applied.

DO NOT CONNECT AN IRRIGATION SYSTEM (including greenhouse systems) USED FOR PESTICIDE APPLICATION TO A PUBLIC WATER SYSTEM UNLESS THE PESTICIDE LABEL PRESCRIBED SAFETY DEVICES FOR PUBLIC WATER SYSTEMS ARE IN PLACE.

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.

The system should have properly working nozzles providing the recommended output and pattern. The chemigation system should also be free of leaks.

Overhead Sprinkler Irrigation System Requirements

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 back flow.
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 function 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.

The following routine checks will help to ensure that the sprinkler irrigation system is working properly:

1. Use a calibrated injection metering pump as specified by the manufacturer.
2. Metering pump, the supply tank, and any associated equipment must be clean and dry before adding undiluted TRI-4 HF to the system for injection.
3. Check the metering pump periodically to confirm that TRI-4 HF is being injected continuously and at the proper calibration throughout the irrigation period.
4. Continuous agitation must be maintained in the supply tank during the entire overhead sprinkler irrigation period.

Use of this product could stain irrigation equipment and equipment associated with the use of TRI-4 HF.

CHEMIGATION MIXING DIRECTIONS

Undiluted TRI-4 HF: Chemigation equipment must be completely cleaned and dry before TRI-4 HF is added to the system for injection. Continuous agitation must be engaged throughout the injection of undiluted TRI-4 HF into the injection tank.

Diluted TRI-4 HF: Diluted TRI-4 HF can be used for the calibration of irrigation equipment. The volume of TRI-4 HF added to the injection tank is equal to what is required. Agitation must be started prior to the addition of TRI-4 HF to the water. Next fill the supply tank with the remainder of water that is needed for equipment calibration. Continuous agitation must be engaged throughout the injection of TRI-4 HF into the injection tank.

DO NOT APPLY TRI-4 HF THROUGH ANY IRRIGATION SYSTEM IF THESE DIRECTIONS ARE NOT FOLLOWED CAREFULLY.

INCORPORATION

Before planting.

For best results the herbicide must be incorporated within 24 hours after application. A second incorporation is required at any time prior to planting using the equipment in a different direction from the first. Incorporation should place the product into the top 2 or 3 inches of the final seedbed.

Variable weed control may result from delayed incorporation if the herbicide is applied to a wet, warm soil surface or if the wind velocity is 10 mph or higher.

After planting.

When incorporating after planting (check crops approved for incorporation after planting), use P.T.O.-driven equipment or Rolling Cultivators and adjust to till the soil over the seed or throw treated soil toward the crop. Avoid disturbing the seed or mechanically damaging the crop.

In bedded culture.

For effective weed control in bedded culture the product should be incorporated into the top 2 to 3 inches of the final seedbed.

Knock off beds to planting height before application and incorporation on bedded ground. Avoid removal of treated soil from the seedbed before or during the planting operation. This will expose untreated soil and allow weeds to germinate in the drill row.

Equipment.

For incorporation use machinery which pulverizes large clods and mix the herbicide thoroughly with the soil. Thorough incorporation may be achieved with the following: disc, set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph; field cultivator, set to cut 3 to 4 inches deep and operated at 5 mph or more; rolling cultivator, set to cut 2 to 4 inches deep and operated two times at 6 to 8 mph (adequate for use on coarse or medium textured soils only); bed conditioner, set to cut 2 to 4 inches deep and operated one time at 4 to 6 mph (adequate for use on coarse and medium textured soils only); mulch treader and other similar disc-type implements, set to cut 3 to 4 inches deep and operated at 5 to 8 mph in two different directions; P.T.O.-driven equipment (tillers, cultivators, hoes), set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil and operated one time (they should not be operated at a speed greater than 4 mph).

APPLICATION WITH LIQUID FERTILIZERS

TRI-4 HF may be mixed with most liquid fertilizers. The mixture has provided weed and grass control equal to the same rates of TRI-4 HF applied in water.

All individual state regulations relating to fluid liquid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

TRI-4 HF alone or in tank-mixture may not combine properly with some fluid fertilizer material. Therefore, it is necessary to determine whether a compatibility agent is needed and which agent works properly, testing small quantities before full-scale mixing.

1. Put 1 pt. of fertilizer mixture in a quart jar.
2. Add 1 to 4 teaspoonfuls of the formulation which must be mixed to the liquid fertilizer (depending on the recommended rate/acre).
3. Close jar and agitate until the materials are dispersed evenly in the fertilizer. If the materials do not disperse well, slurry the chemicals in water before adding to the fertilizer.
4. Add 3 to 4 teaspoonfuls of TRI-4 HF to the jar and shake well.
5. Watch the mixture for about 10 minutes. If the mixture does not separate, or if agitation is only required to resuspend, the combination may be used. If the mixture separates, gets very thick or syrupy, do not combine for field application. A compatibility agent is needed.
6. Mixing ability may be improved by adding a compatibility agent. Follow the procedure outlined above and add 0.1 teaspoonful of the compatibility agent in step 2. Complete the other steps to determine if the compatibility agent solves the problem.

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 fertilizers.

If a compatibility agent is needed, add it to the fluid fertilizer before adding the TRI-4 HF alone or in mixture.

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)
4. T-Mulz 734-2* (Thompson-Hayward Chemical Co.)
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
6. Amoco Spray Mate* (Amoco Oil Co., Chicago, IL)
7. Kam-Link (Universal Coop, Minneapolis, MN)

*DO NOT use in California

All of the above are phosphate, ester-type surfactants designed to be used with liquid fertilizers. They usually do not work as compatibility agents in tank mixtures in plain water.

Follow normal application procedures to apply and incorporate.

APPLICATION WITH DRY BULK FERTILIZERS

Dry bulk fertilizers may be impregnated or coated with TRI-4 HF. Application of dry bulk fertilizers impregnated with TRI-4 HF has provided weed and grass control equal to the same rates of TRI-4 HF applied in water.

All TRI-4 HF label recommendations regarding rates/acre, approved crops, incorporation, special instructions, cautions and special precautions must be followed. All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

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Limitations.

Apply a minimum of 200 pounds/acre of dry fertilizer impregnated with TRI-4 HF at the recommended rates. Any commonly used dry fertilizer can be used for TRI-4 HF impregnation except coated ammonium nitrate and straight limestone. These materials will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

Impregnation.

Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Provide uniform spray coverage of TRI-4 HF on to the fertilizer.

Rates.

Check the crop section to determine the rate of TRI-4 HF/acre. See the rate table which follows to determine amount of TRI-4 HF to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be applied/acre.

Application.

Spread the fertilizer/chemical mixture normally with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

Incorporation.

Follow normal incorporation procedures.

Rate Chart for Impregnating Fertilizer with TRI-4 HF

Fertilizer Rate per Acre	TRI-4 HF added to a ton of fertilizer				
	1 pt.	1 1/2 pts.	2 pts.	3 pts.	4 pts.
200 pounds	5 qts./ton	7 1/2 qts./ton	10 qts./ton	15 qts./ton	20 qts./ton
250 pounds	4 qts./ton	6 qts./ton	8 qts./ton	12 qts./ton	16 qts./ton
300 pounds	3 1/3 qts./ton	5 qts./ton	6 2/3 qts./ton	10 qts./ton	13 1/3 qts./ton
350 pounds	2 3/4 qts./ton	4 1/4 qts./ton	5 3/4 qts./ton	8 1/2 qts./ton	11 1/2 qts./ton
400 pounds	2 1/2 qts./ton	3 3/4 qts./ton	5 qts./ton	7 1/2 qts./ton	10 qts./ton
450 pounds	2 1/4 qts./ton	3 1/3 qts./ton	4 1/2 qts./ton	6 2/3 qts./ton	9 qts./ton

For rates other than those listed above, use the following formula to calculate the amount of TRI-4 HF to be impregnated on a ton of dry bulk fertilizer:

$$\frac{\text{Pints of TRI-4 HF/acre}}{1000} \times \frac{1000}{\text{Lbs. fertilizer/acre}} = \frac{\text{Quarts TRI-4 HF/Ton of fertilizer}}{1}$$

APPLICATION DIRECTIONS

Where applicable, rates are given for Eastern United States and Western United States. The dividing line between Eastern and Western States is the point where the average rainfall/year is a minimum of 20 to 25 inches.

Rates are given for broadcast application; for band application use proportional amount of product.

ALFALFA (Established)

Postemergence Incorporated

Use restricted to Western U.S. only.

Apply to established alfalfa stands at a broadcast rate/acre of 1 1/2 pts. on coarse soil and 2 pts. on medium and fine soils. Use incorporation equipment that will ensure thorough soil mixing with a minimum of damage to the established alfalfa.

Chemigation Applications to Established Alfalfa

Annual grass control can be achieved through sprinkler irrigation or broadcast surface applications.

Broadcast applications may be made to the soil surface in established alfalfa. However, the TRI-4 HF must be activated by moisture through rainfall, or irrigation. At least 0.5 inches of moisture is required by rainfall or overhead sprinkler irrigation to activate TRI-4 HF for weed control. When furrow irrigation is used, field inspection should be done to ensure that the beds are thoroughly wet between the furrows. In situations where rainfall has not occurred for 3 days mechanical incorporation can be done, however, in such a way that ensures thorough soil mixing while eliminating or minimizing potential damage to established alfalfa.

Applications during dormancy, semi-dormancy or immediately after cutting can be made during the growing season. Applications of TRI-4 HF will not control established weeds, therefore timing of application should occur prior to weed seed germination. To control cheat and Bromegrass, apply TRI-4 HF immediately after cutting between August 1 and October 1, before weeds emerge. If applied in the fall TRI-4 HF will control labeled weeds that germinate after application.

Weeds controlled when TRI-4 HF is applied through overhead sprinkler irrigation.

- barnyardgrass
- downy brome
- crabgrass
- foxtail
- sandbur
- cheat
- canarygrass
- cupgrass
- junglerice
- wild barley

APPLICATION RATE/ACRE FOR TRI-4 HF IS UP TO 4.0 PINTS ON ALL SOILS.

DO NOT harvest or graze alfalfa within 21 days of application. Apply up to 4 pints per acre per season. Plant crops only that are labeled for preplant applications as rotational crop injury could occur the following season.

Tank-mixes: TRI-4 HF may be tank mixed with any product registered for use on alfalfa or applied as part of a sequential application. Refer to the tank-mix product for rates, weeds controlled, precautions, and restrictions.

BEANS

DRY BEANS—CASTOR BEANS

Apply and incorporate before planting at the following:

Soil Texture	Broadcast rate/acre	
	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

Fall application.

For dry beans grown in Idaho, Oregon, Washington only, apply any time between October 15 and December 31 at a broadcast rate/acre of 1 pt. on coarse soil, 1 1/4 - 1 1/2 pts. on medium soil, 1 1/2 pts. on fine soil.

TRI-4 HF/EPTAM TANK-MIX

FOR DRY BEANS

Apply from two days before planting (up to planting in the Eastern U.S.) at the following:

Soil Texture	Broadcast rate/acre		
	TRI-4 HF		EPTAM 7E
	Eastern U.S.	Western U.S.	
Coarse	1 pt.	1 pt.	2 1/2 - 3 1/2 pts.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.	2 1/2 - 3 1/2 pts.
Fine	2 pts.	1 1/2 pts.	2 1/2 - 3 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.	1 1/2 - 2 pts.	2 1/2 - 3 1/2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.	2 1/2 - 3 1/2 pts.

Precautions: This combination should not be used on soybeans, black-eyed peas (beans), lima beans and other flatpodded beans except Romano. Do not use the foliage from a crop treated with this tank-mix for feed or for grazing.

Observe all directions, precautions and limitations on both products' labeling.

GUAR BEANS—MUNG BEANS

Apply and incorporate before planting at a broadcast rate/acre of 1 pt. on coarse soil, 1 1/2 pts. on medium and fine soils.

LIMA BEANS—SNAP BEANS

Apply and incorporate before planting at a broadcast rate/acre of 1 pt. on coarse and medium soils and 1 1/2 pts. on fine soils.

CARROTS

Apply and incorporate before planting at the following:

Soil Texture	Broadcast rate/acre	
	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

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CELERY

Both direct-seeded and transplant.
Apply and incorporate before planting or transplanting at the following:

Broadcast rate/acre	
Soil Texture	Western U.S.
Coarse	1 pt.
Medium	1 1/4 - 1 1/2 pts.
Fine	1 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.

COLE CROPS - BROCCOLI, BRUSSELS SPROUT, CABBAGE, CAULIFLOWER

For transplants, apply and incorporate before transplanting at the following:

Broadcast rate/acre		
Soil Texture	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

For direct-seeded, apply and incorporate before planting at the following:

Broadcast rate/acre		
Soil Texture	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 pt.	1 pt.
Fine	1 1/2 pts.	1 pt.
2 to 5% organic matter	1 1/2 pts.	—
5.1 to 10% organic matter	—	1 1/2 pts.

Direct-seeded cole crops have exhibited marginal tolerance to recommended rates. Stunting or reduced stands may occur.

COTTON

Pre-plant application. Apply and incorporate before planting at the following:

Broadcast rate/acre		
Soil Texture	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	Do Not Use	2 pts.

Post-emergence application.
Apply any time up to layby but not less than 90 days before harvest. Direct layby applications to the soil between the rows and beneath emerged cotton plants. Use the same rates as for pre-plant application.

- Fall application.**
Any time from October 15 to December 31.
- In Alabama, Arkansas, Northern Florida, Georgia, Louisiana, Mississippi, SE Missouri bootheel, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas; apply and incorporate at a broadcast rate/acre of 2 pts. on coarse and medium soils.
 - In Arizona, California, Nevada, apply and incorporate at a broadcast rate/acre of 1 1/2 pts. on coarse soil, 2 pts. on medium soil.

- In states other than those listed above, apply and incorporate at a broadcast rate/acre of 1 pt. on coarse soil, 1 1/2 pts. on medium soil, 2 pts. on fine soil, 1 1/2 pts. on soils with 2 to 5% organic matter, 1.6 to 2 pts. on soils with 5.1 to 10% organic matter.

- Special applications.**
- For the control of Fall Panicum in the states of Alabama, Florida, Georgia, North and South Carolina, and Virginia, apply and incorporate at a broadcast rate/acre of 2 pts. on both coarse and medium soils.
 - For the control of Pigweed and seedling Johnsongrass in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, SE Missouri, North and South Carolina, Tennessee and Southern Virginia, apply TRI-4 HF, preplant, at a broadcast rate/acre of 1 to 1 1/2 pts. on coarse soil, 1 1/2 to 2 pts. on medium soil, 2 pts. on fine soil.
 - For a more complete control of all listed grasses and weeds in counties along the Texas Gulf Coast (limited to Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller, and Wharton), apply up to 2 weeks before planting at a broadcast rate/acre of 1 1/2 pts. on coarse soil, 2 pts. on medium soil.

Precautions: Cotton should be planted after early season adverse weather conditions have passed especially when using higher rate programs.

Chemigation Application to Cotton.
TRI-4 HF must be applied through properly calibrated and maintained CHEMIGATION systems to ensure proper application rates for optimum weed control in cotton. Follow the TRI-4 HF directions carefully and adhere to all label precautions and restrictions. Apply TRI-4 HF through sprinkler irrigation in 0.5 to 1 inch of water. Plant immediately after the last field operation. TRI-4 HF does not control established weeds. Mechanical incorporation is not needed when TRI-4 HF is applied through a chemigation system. Shallow cultivation operations can be done, however, untreated soil must not be exposed as this will result in reduced weed control.

BROADCAST APPLICATION RATES/ACRE TRI-4 HF			
Soil Texture	Spring Application ¹	Eastern U.S. ²	Western U.S. ³
Coarse	1 pt.	2 pts.	1 1/2 pts.
Medium	1 1/4 - 1 1/2 pts.	2 pts.	2 pts.
Fine	1 1/2 - 2 pts.	Do Not Use	Do Not Use

¹Coarse to medium soils with 2-5% O.M. apply 1 1/2 pints/acre
Fine soils with 2-5% O.M. apply 2 pints/acre
The lowest rate in any rate range should be used if cumulative rainfall plus irrigation totals are less than 20 inches.
²Fall application rates for Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri (Bootheel), North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee, and Texas
³Fall application rates for western states including Arizona and Nevada.
In states not listed above, apply in the fall at broadcast rates for regions with greater than 20 inches of average annual rainfall.

TRI-4 HF/CAPAROL TANK-MIX

For cotton grown in California, Arizona, New Mexico and Texas, apply to the flat soil surface before disking at the following:

Broadcast rate/acre		
Soil Texture	TRI-4 HF	CAPAROL 80W
Coarse	1 pt.	2 lbs.*
Medium	1 1/4 - 1 1/2 pts.	2 1/2 lbs.
Fine	2 pts.	2 1/2 lbs.

*Do not use on sand and loamy sand soils.
For band applications, the user should use proportionally less.
Carefully follow the procedures on the Caparol label for making a slurry and adding it to a partially filled tank of water. After the Caparol is well mixed add the TRI-4 HF and agitate continuously.

Precautions: Do not use this tank-mix in the cut areas of newly leveled fields, in areas of excess salt and where flooding over the beds is likely to happen.

- Crop rotation:**
- Cabbage, okra, onion, and peas may be planted in the fall after a spring application of the mixture.
 - 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.
- Observe all directions, precautions and limitations on both products' labeling.

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TRI-4 HF/COTORAN TANK-MIX

Except in Arizona and California.

Apply and incorporate at the following:

Soil Texture	Broadcast rate/acre	
	TRI-4 HF	COTORAN BOW
Coarse	1 pt.	1 1/4 lbs.
Medium	1 1/2 pts.	2 lbs.
Fine	2 pts.	2 1/2 lbs.

Use 15-40 gallons of clean water/acre.

Carefully follow the procedures on the Cotoran label for making a slurry and adding it to a partially filled tank of water. After the Cotoran is well mixed add the TRI-4 HF and agitate continuously.

Precautions: Do not plant crops other than cotton on the treated land within 6 months after application of this tank-mix. Do not feed foliage from treated cotton plant or gin trash to livestock. Do not mix with liquid fertilizers.

- In West Texas do not use on sandy, loamy sand or fine sandy loam soils. Do not use on cotton planted in furrows.
- In Arkansas, Louisiana, Mississippi, use 1 lb. of Cotoran in tank-mix with TRI-4 HF on sandy loam soils low in organic matter.
- In New Mexico, do not plant treated land with crops other than cotton until one year after the last application. Do not use on sandy loam soils with less than 1 percent organic matter.

Observe all directions, precautions and limitations on both products' labeling.

COTORAN Overlay: Apply TRI-4 HF as recommended and then Cotoran as a pre-emergence surface treatment at 1 1/4 to 2 1/2 lbs./acre. On light soil and sandy soils low in organic matter, use the lower rate. Refer to Cotoran label for cautions, precautions and instructions.

TRI-4 HF PREPLANT FOLLOWED BY KARMEX OVERLAY

For cotton grown east of the Mississippi River, Arkansas, SE Missouri, Louisiana, Eastern Texas, apply and incorporate TRI-4 HF before planting at usual rates then make a pre-emergence application of Karmex 80W at 0.6 to 1.5 lbs. per broadcast acre.

Precautions: Do not use Karmex on sandy or low organic soils. Do not allow grazing on cotton treated with Karmex.

Refer to Karmex 80W label for additional instructions, cautions, and precautions.

CUCURBITS - CANTALOUPE, CUCUMBERS, WATERMELONS

Use restricted to Western U.S. including Texas.

Apply in post-plant emerged at the following:

Soil Texture	Broadcast rate/acre	
	Texas only	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/4 - 1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	1 1/2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

Apply as directed spray to the soil between the rows and beneath the plants which are in the 3 to 4 true-leaf stage. Care should be taken that incorporation machinery does not damage the plants.

FIELD CORN

Postemergence Incorporated Application

TRI-4 HF may be surface applied following a cultivation or use of a herbicide that has controlled weeds. **TRI-4 HF WILL NOT CONTROL WEEDS THAT HAVE EMERGED.** TRI-4 HF can be applied after the corn has reached a size of 2 true leaves or greater. TRI-4 HF should be applied over the corn, or post-directed using drop nozzles if the foliage is so dense that the spray solution cannot contact the soil.

Mechanical incorporation of TRI-4 HF must be completed within 24 hours of application to prevent volatilization of product which causes reduced weed control. The product must also be incorporated in the weed seed germination zone for optimum effectiveness. Mechanical incorporation can be completed with a single pass sweep-type or rolling cultivator. The sweep-type cultivator must have 3-5 sweeps between the rows for maximum mixing of soil. **DO NOT** expose untreated soil. Avoid crop injury from improper cultivator settings.

Broadcast Rate Per Acre of TRI-4 HF¹

Soil Texture	TRI-4 HF
Coarse	3/4 - 1 pt.*
Medium	1 - 1 1/2 pts
Fine	1 1/2 - 2 pts.

*In Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia in coarse soils apply 1 - 1 1/2 pints/acre for fall panicum and Texas panicum control.

¹Corn must be planted at least 1.5 inches deep to safely utilize this treatment.

In regions receiving less than 20 inches of rainfall and irrigation, always apply at the lower end of the rate range for any given soil texture.

DO NOT APPLY TO SWEET CORN OR CORN GROWN FOR SEED.

TRI-4 HF MUST NOT BE SOIL APPLIED AS A PRE-PLANT OR PREEMERGENCE TREATMENT IN FIELD CORN, OR CROP INJURY WILL OCCUR.

Planting corn into a furrow requires TRI-4 HF to be applied after a cultivation has moved soil into the row.

Refer to the TRI-4 HF label for specific use directions regarding soil preparation, weeds controlled, soil texture, and special precautions.

This label must be in the possession of the user at the time of herbicide application. **Review and follow the appropriate sections of this label prior to application and rotational crop planting.**

Chemigation Application to Field Corn

Application timing

When field corn is at 2 true leaves or taller, TRI-4 HF can be applied with 0.5 to 1.0 acre inch of overhead sprinkler irrigation. TRI-4 HF will not control emerged weeds.

Broadcast Application Rate/Acre

Soil Texture	TRI-4 HF
Coarse	1 1/2 - 2 pts.
Medium	1 1/2 - 2 pts.
Fine	DO NOT apply

1. TRI-4 HF should not be applied to sweet corn or corn grown for seed.
2. **DO NOT** apply where corn is planted in a furrow. Apply only after a cultivation to move soil into a row to prevent crop injury.
3. **DO NOT** apply TRI-4 HF as a preplant or preemergence treatment because crop injury will occur.

GREENS - TURNIP GREENS (for processing), KALE, MUSTARD GREENS

Apply and incorporate before planting at a broadcast rate/acre of 1 pt. on coarse and medium soils, 1 1/2 pts. on fine soil.

CHEMIGATION APPLICATION TO GRAIN SORGHUM

Apply TRI-4 HF through chemigation equipment when grain sorghum has reached a height of 8 inches or taller. Cultivate sorghum to destroy existing weeds and add 1 inch of soil around the base of sorghum plants.

Apply TRI-4 HF in 0.5 to 1 acre inch of sprinkler irrigation and immediately after cultivation when the grain sorghum is at least 8 inches tall. TRI-4 HF has no postemergent activity on emerged weeds.

BROADCAST RATES/ACRE

Soil Texture	TRI-4 HF
Coarse	3/4 - 1 pt.
Medium	1 - 1 1/2 pts.
Fine	DO NOT apply

Applications to grain sorghum with TRI-4 HF should not be made preplant or pre-emergence because of potential crop injury. Misapplication will result in crop injury.

HOPS

Use restricted to Western U.S. only.

Apply and incorporate while the crop is dormant at a broadcast rate/acre of 1 pt. on coarse soil, 1 1/4 - 1 1/2 pts. on medium soil, 1 1/2 pts. on fine soil and soils with 2 to 10% organic matter.

OKRA

Apply and incorporate before planting at the following:

Soil Texture	Broadcast rate/acre	
	Texas only	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

PEANUTS

Spanish peanuts grown in Texas and Oklahoma only.

Apply and incorporate before planting, at planting or immediately after planting at a broadcast rate/acre of 1 pt. on coarse soil. Care should be taken not to disturb the seed when incorporating after planting.

TRI-4 HF/VERNAM TANK-MIX

Apply up to 10 days prior to planting, incorporate immediately after application at a broadcast rate/acre of 1 pt. of TRI-4 HF and 2 1/3 pts. of Vernam 7E. Observe all directions, precautions and limitations on both products' labeling.

PEAS

ENGLISH PEAS—DRY PEAS.

Apply and incorporate before planting at a broadcast rate/acre of 1 pt. on coarse and medium soils and 1 1/2 pts. on fine soil.

Fall application.

- For dry and English peas grown in Idaho, Oregon and Washington only, apply and incorporate any time between October 15 and December 31 at a broadcast rate/acre of 1 pt. on coarse soil, 1 1/4 - 1 1/2 pts on medium soil and 1 1/2 pts. on fine soil. Do not apply in the fall to soils which are wet or are subject to prolonged periods of flooding.

TRI-4 HF/VADEX BW TANK-MIX

For peas grown in Idaho, Oregon and Washington only, apply and incorporate up to 3 weeks before planting at the following:

Soil Texture	Broadcast rate/acre	
	TRI-4 HF	VADEX BW
Coarse	3/4 pt.	1 1/4 qts.
Medium	3/4 pt.	1 1/4 qts.
Fine	1 pt.	1 1/4 qts.

Precautions: Do not apply to lentils. Do not use foliage from peas treated for feed or forage. Do not graze livestock on treated crops.

Observe all directions, precautions and limitations on both products' labeling.

SOUTHERN PEAS

Apply and incorporate before planting at the following:

Soil Texture	Broadcast rate/acre	
	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

PEPPERS

Apply and incorporate before transplanting at the following:

Soil Texture	Broadcast rate/acre	
	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

Do not apply after transplanting.

POTATOES

Not recommended for use in the state of Maine.

Apply after planting, before emergence or immediately following dragoff or after the potato plants have fully emerged at the following:

Soil Texture	Broadcast rate/acre	
	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

Care should be taken so that incorporation machinery does not damage potato seed pieces or elongating sprouts. Set incorporation equipment so that bed and furrow will be uniformly covered by the product.

If the layer of TRI-4 HF treated soil is not uniform, potato emergence may be retarded and stem brittleness can occur. When applying and incorporating after potato plants have fully emerged, do not completely cover the foliage with treated soil.

Split application in Idaho, Oregon, Washington.

On all soils apply and incorporate 3/4 pt. before planting and 3/4 pt. after planting when potato plants have fully emerged.

Precautions: Do not apply to soil containing 2% or more organic matter.

TRI-4 HF/EPTAM TANK-MIX

- For potatoes grown in Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota, Texas, apply after planting, but prior to crop emergence. In areas where potatoes are normally dragged off the mixture should be applied and incorporated up to or immediately following dragoff.

Soil Texture	Broadcast rate/acre		
	TRI 4 HF		EPTAM 7E
	Eastern U.S.	Western U.S.	
Coarse	1 pt.	1 pt.	1 3/4 - 7 pts.*
Medium	1 - 1 1/2 pts.	1 - 1 1/2 pts.	1 3/4 - 7 pts.*
Fine	1 - 2 pts.	1 - 1 1/2 pts.	1 3/4 - 7 pts.*
2 to 5% organic matter	1 1/2 pts.	1 1/2 pts.	1 3/4 - 7 pts.*
5.1 to 10% organic matter	2 pts.	2 pts.	1 3/4 - 7 pts.*

*Use higher rates for nutsedge control.

Precautions: Do not graze or feed forage to livestock from fields treated with this mixture.

- For potatoes grown in Washington, Idaho, Oregon, apply and incorporate before planting at a broadcast rate of 3/4 pts. of TRI-4 HF/acre and 3 1/2 pts. of EPTAM 7E/acre on all soils.

Precautions: Do not use this tank-mixture both before and after planting in the same season. Do not use foliage from treated crops for feed or forage.

Observe all directions, precautions and limitations on both products' labeling.

RAPESEED (CANOLA)

TRI-4 HF may be surface applied and incorporated in the fall in the states of Minnesota, North Dakota, and South Dakota from September 1 to December 31. In all other states fall application can occur between October 15 and December 31. Application and incorporation of TRI-4 HF can be made in the fall or spring provided the soil is in condition for uniform incorporation.

Broadcast Rate Per Acre of TRI-4 HF	
Soil Texture	TRI-4 HF
Coarse	1 pt.
Medium	1 1/2 pts.
Fine	2 pts.

Precaution: DO NOT apply TRI-4 HF to rapeseed (canola) grown in the state of Alaska. Good soil preparation is essential for best results: destroy existing weeds before application and incorporate TRI-4 HF within 24 hours after application. Refer to the TRI-4 HF label for incorporation instructions.

DO NOT FALL APPLY TRI-4 HF TO SOILS THAT ARE SUBJECT TO PROLONGED WET PERIODS OR FLOODING. DO NOT EXPOSE UNTREATED SOIL IF BEDDING OPERATIONS ARE IMPLEMENTED.

SAFFLOWER

Apply and incorporate in the spring before planting or in the fall between October 15 and December 31 at the following:

Soil Texture	Broadcast rate/acre	
	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 pts.	1 1/2 pts.
5.1 to 10% organic matter	2 - 2 1/2 pts.	2 - 2 1/2 pts.

Fall application.

For safflower grown in Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming: apply and incorporate anytime between October 15 and December 31 at a broadcast rate/acre of 1 1/2 pts. on coarse soil, 2 pts. on medium soil, 2 1/2 pts. on fine soil.

Precautions: Do not apply in the fall to soils which are wet or are subject to prolonged periods of flooding.

SOYBEAN

Apply and incorporate before planting at the following:

Soil Texture	Broadcast rate/acre	
	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 - 2 1/2 pts.*	2 pts.

*except charcoal soils in Arkansas, Louisiana, Mississippi (see below).

Charcoal soils in Arkansas, Louisiana, Mississippi.

Newly cleared land often contains high organic matter (4 to 10%) and charcoal which results from burning debris. This tends to bind TRI-4 HF reducing its weed control activity. Higher product rates are therefore necessary, but increased rates can cause crop injury if charcoal or organic matter is not present. Apply and incorporate at a broadcast rate/acre of 2 - 2 1/2 pts. on coarse soil, 2 1/2 pts. on medium soil, 3 pts. on fine soil.

Fall application.

Apply anytime between October 15 and December 31.

- In Alabama, Arkansas, Northern Florida, Georgia, Louisiana, Mississippi, SE Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas: apply and incorporate at a broadcast rate/acre of 2 pts. on coarse and medium soils and 2 1/2 pts. on fine soil.
- In Eastern United States other than those listed above: apply and incorporate at a broadcast rate/acre of 1 pt. on coarse soil, 1 1/2 pts. on medium soil and 2 pts. on fine soil, 1 1/2 pts. on coarse soil with 2 to 5% organic matter, 2 to 2 1/2 pts. on soils with 5.1 to 10% organic matter.

Precautions: Do not apply to soils which are wet or subject to prolonged periods of flooding or where rice was grown the previous year.

Special applications.

- For the control of Fall Panicum in Alabama, Florida, Georgia, North and South Carolina, Virginia: apply at a broadcast rate/acre of 2 pts. on both coarse and medium soils.
- For more complete control of Pigweed and seedling Johnsongrass in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, SE Missouri, North and South Carolina, Tennessee, S. Virginia: apply at a broadcast rate/acre of 1-1 1/2 pts. on coarse soil, 1 1/2 - 2 pts. on medium soil, 2 pts. on fine soil (3 pts. in the State of Louisiana).
- For more complete weed control in the Texas Gulf Coast (limited to the following counties: Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller, and Wharton): apply up to 2 weeks before planting at a broadcast rate/acre of 1 1/2 pts. on coarse soil, 2 pts. on medium soil, 3 pts. on fine soil.
- For suppression or partial control of Red Rice in Arkansas, Louisiana, Mississippi, Texas: apply as directed at double the normal rate the first year and at the normal rate the second year. Apply and incorporate anytime in the spring before planting at the following:

Soil Texture	Broadcast rate/acre	
	1st Year	2nd Year
Coarse	2 pts.	1 pt.
Medium	3 pts.	1 1/2 pts.
Fine	4 pts.	2 pts.
2 to 5% organic matter	3 pts.	1 1/2 pts.
5.1 to 10% organic matter	4 pts.	2 - 2 1/2 pts.

If a combination of high organic matter and charcoal are present apply in the second year the rates labeled for charcoal soils in Louisiana, Arkansas and Mississippi (1 1/2 - 2 1/2 pts. on coarse soil, 2 1/2 pts. on medium soil, 3 pts. on fine soil).

Crop rotation: Plant only those crops for which TRI-4 HF has been registered as a preplant treatment.

Precautions: Do not plant rice the second year.

- For the control of Rhizome Johnsongrass in Eastern United States and Texas. Apply in a row for two consecutive years according to the program that best fits your cultural practices:
 - * as spring application, anytime in spring before planting,
 - * as fall application, between October 15 and December 31,
 - * as split application, directed under both spring and fall applications.

Soil Texture	Broadcast rate/acre	
	Spring or Fall	Split Spring and Fall
Coarse	2 pts.	1 pt.
Medium	3 pts.	1 1/2 pts.
Fine	4 pts.	2 pts.
2 to 5% organic matter	3 pts.	1 1/2 pts.
5.1 to 10% organic matter	4 pts.	2 pts.

Proper preparation of the soil before application and deep incorporation are very important for best results. Some Johnsongrass plants may escape. Timely cultivations during the crop season are necessary.

- For the control of Wild Cane (shattercane). Wild cane can germinate from greater soil depth than most other weed seeds. Several "flushes" or germinating times are common in one season. Commercially acceptable control of Wild Cane can be obtained with the increased rates of TRI-4 HF.

Land preparation: Work your land to destroy existing grasses and weeds. Thoroughly mix crop residues into the soil to a depth of 4 to 6 inches.

Application. Apply before planting at a broadcast rate/acre of 1 pt. on coarse soil, 2 pts. on medium soil, 2 1/2 pts. on fine soil.

Incorporation. Deep incorporation is essential to good wild cane control. Incorporate thoroughly with a disc only set to cut 4 to 6 inches deep and operate in 2 different directions at 4 to 6 mph.

Cultivation. Cultivations during the crop season will also contribute to control.

Precautions: Plant soybeans after early season adverse weather conditions have passed. Do not plant soybeans deeper than 2 inches. Crop injury in the form of delayed growth may occur under adverse cool, wet weather conditions early in the season when TRI-4 HF is used according to these recommendations.

TRI-4 HF/SENCOR OR LEXONE TANK-MIX

- For the control of grasses and weeds controlled by TRI-4 HF alone plus additional weeds listed for the mixture, apply from two weeks before planting up to planting at the following:

Broadcast rate/acre		
Soil Texture	TRI-4 HF	SENCOR 50WP/4 or LEXONE 50WP/4L
Coarse	1 pt.	1/2 lb./pt.
Medium	1 1/2 pts.	3/4 lb./pt.
Fine	2 pts.	1 lb./pt.

Do not use on coarse soils with less than 1% organic matter.

OR

Broadcast rate/acre		
Soil Texture	TRI-4 HF	SENCOR (dry flowable) or LEXONE (dry flowable)
Coarse	1 pt.	1/3 lb.
Medium	1 1/2 pts.	1/2 lb.
Fine	2 pts.	2/3 lb.

Do not use on coarse soils with less than 1% organic matter.

Precautions: Do not plant any crop other than soybeans within 4 months after treatment. Over application, uneven application or improper soil incorporation can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, soil pH over 7.5, high salt concentration or drought may weaken crop seedlings and increase possibility of damage from the application of this tank-mix.

For the control of Rhizome Johnsongrass.

Apply up to two weeks before planting for two consecutive years at the following:

Broadcast rate/acre		
Soil Texture	TRI-4 HF	SENCOR 50WP/4 or LEXONE 50WP/4L
Coarse	2 pts.	1/2 lb./pt.
Medium	3 pts.	3/4 lb./pt.
Fine	4 pts.	1 lb./pt.

Do not use on coarse soils with less than 1% organic matter.

OR

Broadcast rate/acre		
Soil Texture	TRI-4 HF	SENCOR (dry flowable) or LEXONE (dry flowable)
Coarse	2 pts.	1/3 lb.
Medium	3 pts.	1/2 lb.
Fine	4 pts.	2/3 lb.

Do not use on coarse soils with less than 1% organic matter.

Precautions: Do not use the foliage from soybeans for feed or forage.

Observe all directions, precautions, limitations and mixing procedures on both products' labeling.

TRI-4 HF PREPLANT + SENCOR OR LEXONE OVERLAY

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

(Rates are given according to the use of Sencor or Lexone respectively.)

Broadcast rate/acre		
Soil Texture	TRI-4 HF	SENCOR 50WP/4 or LEXONE 50WP/4L Post-plant/Preemergence
Coarse	1 pt.	3/4 - 1 or 3/4 lbs./pts.
Medium	1 1/2 pts.	3/4 - 1 1/2 or 3/4 - 1 lbs./pts.
Fine	2 pts.	1 - 1 3/4 or 1 lbs./pts.

Do not apply Sencor to coarse soils (sandy loam and loamy sand) containing less than 2% organic matter. Do not apply Lexone to sand or soils with less than 1/2% organic matter.

OR

Broadcast rate/acre		
Soil Texture	TRI-4 HF	SENCOR (dry flowable) or LEXONE (dry flowable) Post-Plant /Preemergence
Coarse	1 pt.	1/2 - 2/3 or 1/2 lb./pt.
Medium	1 1/2 pts.	1/2 - 1 or 1/2 - 2/3 lb./pts.
Fine	2 pts.	2/3 - 1 1/6 or 2/3 lb./pt.

Do not apply Sencor to coarse soils (sandy loam and loamy sand) containing less than 2% organic matter.

Do not apply Lexone to sand or soils less than 1/2% organic matter.

Precautions: Do not use Lexone or Sencor on Tracy, Semmes, Altona, Vansoy or Coker 102 soybeans because these varieties are sensitive to these products. Do not use treated vines for feed or forage. Seed must be planted at least 1 1/2 inches below the soil surface but not more than 2 inches before a Sencor or Lexone application.

Do not apply Sencor or Lexone more than once per season.

Do not replant areas treated with Sencor or Lexone to any crops other than soybean within 4 months after treatment.

Observe all directions, precautions and limitations on all products' labeling.

TRI-4 HF/SCEPTER TANK-MIX OR OVERLAY

Tank-mix: Apply as a preplant incorporated treatment. Incorporate into the soil within 24 hours after application and plant soybeans within 45 days after treatment. Use equipment that provides uniform 2 inch incorporation.

Broadcast rate/acre			
Soil Texture	TRI-4 HF	SCEPTER*	SCEPTER 70DG
Coarse	1 pt.	2/3 pt.	2.8 oz.
Medium	1 1/2 pts.	2/3 pt.	2.8 oz.
Fine	2 pts.	2/3 pt.	2.8 oz.

Preplant Overlay: Apply and incorporate TRI-4 HF as recommended and then follow a preplant surface treatment with SCEPTER or SCEPTER 70 DG at 2/3 pt./acre or 2.8 oz/acre respectively up to 45 days prior to planting of soybeans.

Postemergence Overlay: Apply TRI-4 HF as a preplant incorporated herbicide followed by postemergence overlay treatment with SCEPTER or SCEPTER 70 DG at 2/3 pt./acre or 2.8 oz/acre respectively. For best results, overlay should be applied when the weeds are actively growing but no more than 2 inches in height.

Follow recommended soil preparation and application procedure for TRI-4 HF, SCEPTER or SCEPTER 70 DG. Irrigation or rainfall sufficient to moisten soil to a depth of 2 inches is necessary to activate SCEPTER and SCEPTER 70 DG.

Precautions: SCEPTER and SCEPTER 70 DG plantback restrictions require—Do not plant rice or small grains within 4 months of application. Do not plant corn, edible beans, grain sorghum, peanuts or tobacco within 11 months of application. Do not plant crops other than those listed above within 18 months of application. Consult SCEPTER or SCEPTER 70 DG label for more specific plantback restrictions. Observe all precautions and limitations on the SCEPTER or SCEPTER 70 DG label.

TRI-4 HF/VERNAM TANK-MIX

Apply up to 10 days prior to planting at the following:

Broadcast rate/acre		
Soil Texture	TRI-4 HF	VERNAM 7E
Coarse	1 pt.	1 3/4 - 2 1/3 pts.
Medium	1 1/2 pts.	2 1/3 - 3 pts.*
Fine	2 pts.	3 - 3 1/2 pts.

*Use higher rates for nutsedge, wild cane and velvetleaf control.

Observe all directions, precautions and limitations on both products' labeling.

FALL APPLICATIONS OF TRI-4 HF FOLLOWED BY EARLY POST APPLICATIONS OF PURSUIT® OR PURSUIT® DG HERBICIDES FOR SOYBEANS

In the states of South Dakota and Minnesota, apply and incorporate TRI-4 HF anytime between September 1 and December 31. In all other states, applications of TRI-4 HF can be made between October 15 and December 31. Follow applications of TRI-4 HF in the fall with postemergence applications of PURSUIT or PURSUIT DG the following

spring. Consult the PURSUIT or PURSUIT DG label for application instructions and precautions.

Broadcast Rate Per Acre of TRI-4 HF

Soil Texture	TRI-4 HF	
	Northern U.S.*	Southern U.S.**
Coarse	1 pt.	2 pts.
Medium	1 1/2 pts.	2 pts.
Fine	2 pts.	2 1/2 pts.

*Coarse and medium soils with 2-5% organic matter - 1 1/2 pints.

*Fine soils with 2-5% organic matter - 2 pints.

**Soils with 5-10% organic matter 2 - 2 1/2 pints.

**Fall application rates for States including Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, SE Missouri (BOOTHLEL), North Carolina, Oklahoma, South Carolina, Tennessee, and Texas.

Good soil preparation is essential for best results. TRI-4 HF must be incorporated within 24 hours after application. DO NOT apply TRI-4 HF to fields that are poorly drained or are subject to periods of flooding. Roundup[®], 2,4-D, Butyrac[®] 200 (2,4-DB), paraquat, or tillage should be used to kill existing vegetation, if present before planting.

SUGAR BEETS

Apply as a broadcast, overtop spray to plants immediately after blocking or thinning when plants are between 2 and 5 inches tall. Exposed beet roots should be covered with soil prior to application to reduce possibilities of girdling. Care should be taken that incorporation machinery does not damage the sugar beets taproot.

Broadcast rate/acre

Soil Texture	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	1 1/2 pts.	1 1/2 pts.

Special application.

- Incorporation with a tine-tooth harrow in California, Colorado, Idaho, Kansas, Montana, Nebraska, Oregon, Texas, Utah, Washington, Wyoming.

A properly operated tine-tooth harrow can provide adequate incorporation of the herbicide for effective weed control in sugar beets.

Operate the tine-tooth harrow two times over the field in opposite directions at a speed of 3 to 6 mph and set the harrow to cut 1 to 2 inches deep. Care should be taken to insure that the tine-tooth harrow does not damage the sugar beet taproot.

SUGARCANE

Plant Cane (in Eastern United States only)

Apply and incorporate twice a year at a broadcast rate/acre of 2 to 4 pts. for all soil textures. Make the application in the fall on firmly packed beds immediately after the seed pieces are planted.

Make the application in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2 to 3 inches deep before the spring application. Care should be taken so that incorporation machinery does not damage the seed pieces or emerging shoots.

Plant and Ratoon Cane (grown in Louisiana and Texas only)

Apply and incorporate at a broadcast rate/acre of 2 to 4 pts. for all soil textures. Make application in the spring from before or shortly after the cane emerges up to layby. Make application after the beds have been shaved or false shaved. Loosen rain-packed bed 2 to 3 inches deep before application. Care should be taken so that incorporation machinery does not damage seed pieces or emerging roots.

Post-plant in Hawaii

(only for control of most annual grasses including guineagrass)

Apply to the surface after planting (for plant cane) or after harvesting (for ratoon cane) before weeds and cane emerge at a broadcast rate/acre of 6 to 8 pts. 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. Apply just before anticipated rainfall or sprinkle irrigate immediately after application.

Itchgrass control (in Louisiana only)

Apply and incorporate on either plant or ratoon cane at a broadcast rate/acre of 4 pts. for all soil textures. Apply in the spring from before or shortly after the cane emerges up to layby. Follow directions above for sugarcane layby application in Louisiana and Texas.

SUNFLOWER

Apply and incorporate in the spring or in the fall between October 15 and December 31 at the following:

Broadcast rate/acre

Soil Texture	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 - 2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

TOMATOES

For transplant, apply and incorporate before transplanting at the following:

Broadcast rate/acre

Soil Texture	Eastern U.S.	Western U.S.
Coarse	1 pt.	1 pt.
Medium	1 1/2 pts.	1 1/4 - 1 1/2 pts.
Fine	2 pts.	1 1/2 pts.
2 to 5% organic matter	1 1/2 pts.	1 1/2 - 2 pts.
5.1 to 10% organic matter	2 pts.	2 pts.

For direct-seeded tomatoes, apply and incorporate to soil between the rows and beneath the plants.

TREES AND VINEYARDS

EASTERN U.S.

- For new planting of vineyards, citrus and pecan trees, apply and incorporate before planting at the following:

Broadcast rate/acre

Soil Texture	
Coarse	1 pt.
Medium	1 1/2 pts.
Fine	2 pts.
2 to 5% organic matter	1 1/2 pts.
5.1 to 10% organic matter	2 pts.

- For non-bearing established plantings of citrus and pecan trees and bearing plantings of grapefruit, lemon, orange, pecan, tangelo, tangerine trees, apply at a broadcast rate/acre of 2 to 4 pts. for all soil textures.

Apply as a directed spray to soil around the trees and use incorporation methods not injurious to the trees. If crops are planted between the trees or vines, label directions for those specific crops apply to the area which is interplanted.

For continued weed control in citrus area, apply twice a year at an interval of approximately 4 to 6 months.

WESTERN U.S.

- For new plantings of almond, apricot, citrus, nectarine, peach, pecan, walnut trees, apply and incorporate before planting at the following:

Broadcast rate/acre

Soil Texture	
Coarse	1 pt.
Medium	1 1/4 - 1 1/2 pts.
Fine	1 1/2 pts.
2 to 5% organic matter	1 - 1 1/2 pts.
5.1 to 10% organic matter	2 pts.

- For new plantings of vineyards, apply before planting at the following:

Broadcast rate/acre	
Soil Texture	
Coarse	1 - 1 1/2 pts.
Medium	1 1/2 - 3 pts.
Fine	3 - 4 pts.
2 to 10% organic matter	3 - 4 pts.

Do not use more than 2 pts./acre on heat-treated vines.

- For post-plant applications on bearing and non-bearing established plantings of vineyards, almonds, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees, apply at a broadcast rate/acre of 2 to 4 pts. for all soil textures.
- Apply as a directed spray to the soil around the trees or vines and use incorporation methods not injurious to the trees or vines.
- Do not apply to vineyards within 60 days of harvest.
- For continued weed control in citrus trees, apply twice a year at an interval of about 4 to 6 months.
- In both the Eastern and Western U.S., if crops are planted between the trees or vines, label directions for those specific crops apply to the area which is interplanted.

Special application.

- **For Rhizome Johnsongrass control (Western U.S. only).**

Commercially acceptable control of Rhizome Johnsongrass can be obtained with post-plant applications in bearing and non-bearing established plantings of vineyards, almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerines, and walnut trees.

Work the soil thoroughly to bring the rhizomes nearer the surface. Apply for two years in a row at a broadcast rate/acre of 4 pts. on all soil textures each year.

Incorporate thoroughly with a disc set to cut 4 to 6 inches deep and operate 2 times at 4 to 6 mph.

Some Johnsongrass plants will escape. Timely cultivations are necessary.

Precautions: Do not use the 4 pts. rate on new plantings; do not apply to vineyards within 6 months of harvest; do not interplant orchards or vineyards with other crops; if the TRI-4 HF treated vineyards and orchards are diverted to other crop uses, plant only those crops for which TRI-4 HF has been registered as a preplant treatment.

- **For Field Bindweed control** in vineyards, almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine, and walnut trees in California only.

Apply in the spring with specially designed spray blade which applies at a soil depth of 4 to 6 inches at a broadcast rate/acre of 4 pts. on all soil textures in 40-80 gallons of water/acre.

Destroy all weeds and grasses with soil tillage before applying.

Precautions: Some soils develop cracks as they dry after rainfall or irrigation and Field Bindweed may emerge. Prevent or eliminate cracks by shallow discing or other tillage.

WHEAT

WINTER WHEAT grown in Idaho, Montana, Oregon and Washington.

Apply any time during a period from 3 weeks up to immediately prior to planting at a broadcast rate/acre of 1 1/2 pts. on coarse and medium soils and 2 pts. on fine soils. Incorporate, with a flexible tine-tooth harrow set to cut 1 to 2 inches deep and operate at 3 to 6 mph, one time within 24 hours after application and a second time, in a different direction, prior to planting.

WINTER WHEAT fallow soil application in Washington and Oregon. Apply any time from May to September prior to the fall planting at a broadcast rate/acre of 1 1/2 pts. on coarse and medium soils and 2 pts. on fine soil.

Incorporate, with a flexible tine-tooth harrow set to cut 1 to 2 inches deep and operate at 3 to 6 mph, one time within 24 hours after application and a second time, in a different direction, prior to planting.

SPRING WHEAT, DURUM

Apply as a postplant incorporated treatment, after seeding but before the crop emerges, to control foxtail at a broadcast rate/acre of 1 pt. on coarse and medium soils and 1 1/2 pts. on fine soil. Incorporate using a flex-tine or diamond harrow operating two times in different directions at 5 mph, 1 to 1 1/2 inches deep.

TRI-4 HF may be fall applied for foxtail/pigeongrass control in spring wheat, durum and barley planted the following spring. TRI-4 HF may be applied to ground that has a manageable trash level, has been fallowed or pre-filled. Apply any time between October 15 and December 31 at a broadcast rate/acre of 1 pt. on coarse or medium soils and 1 1/2 pts. on fine soil. For the incorporation use: chisel plow (for the first pass only) operating at 4 to 6 mph, set to cut at 4-5 inches deep; tandem disc, operating at 4 to 6 mph, 3-4 inches deep; field cultivator, operating at 5 mph, 3-4 inches deep.

Precaution: While use of this practice may result in a stand reduction, slight stand reductions do not normally affect yield.

SPECIAL PRECAUTIONS

Applied according to directions and under normal growing conditions TRI-4 HF will not harm the treated crop. Over application may result in crop injury or a soil residue. Uneven application or improper soil incorporation can result in erratic weed control or crop injury.

Special precautions must be taken:

- In the Western United States (Arizona, Colorado, California, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming): to avoid crop injury do not plant sugarbeets, red beets or spinach for 12 months after TRI-4 HF application or for 14 months after a fall application of the product.

Do not plant sorghum, corn, oats for 14 months after spring application or for 16 months after fall application. If land has not been irrigated, do not plant any of these crops for 18 months after spring application or for 20 months after fall application.

- In the Western United States (Kansas, Nebraska, North Dakota, Oklahoma, South Dakota and Texas in those areas where at least 25 inches of irrigation or rainfall was used to produce the crop): do not plant sorghum or oats for 12 months after the herbicide application. If less than 25 inches of water was used to produce the crop, do not plant sorghum or oats for 18 months after application. Cool, wet weather conditions during the early stage of growth may increase the possibility of injury to sorghum.
- In the Eastern United States: moldboard plow before planting sugarbeets where spring application was made the previous season.
- In Florida only: do not plant vegetable crops other than those listed in the label within 5 months following the application of TRI-4 HF.

Use of TRI-4 HF herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, herbicide resistant weed populations, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user.

BASF shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associate with the use of this product in any manner not specifically set forth on this label.

BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. **BASF DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF TRI-4 HF. In no case shall BASF or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

USES WITH OTHER PRODUCTS (TANK-MIXES)

If this product is used in combination with any other product except as specifically recommended in writing by BASF, then BASF (and any other seller) shall have no liability for any loss, damage, or injury arising out of its use in any such combination not so specifically recommended. If used in a combination recommended by BASF, the liability of BASF (and any other seller) shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the BASF product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the product.

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