WINDOW HE BIANCO	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460	EPA Reg. Number: 82542-6	Date of Issuance;		
	NOTICE OF PESTICIDE:	Term of Issuance:	· · · · · · · · · · · · · · · · · · ·		
	<u>x</u> Registration <u>Reregistration</u> (under FIFRA, as amended)	Name of Pesticide P	Name of Pesticide Product: Ethofumesate 43 SC Herbicide		
Name and Address Source Dynam 10039 E Troon Scottsdale, AZ	North Drive				
with the Act. The accept	environment, the Administrator, on his motion, may at any time suspen- stance of any name in connection with the registration of a product under the name or to its use if it has been covered by others.				
1. Subr	conditionally registered in accordance with FIF mit and/or cite all data required for registration/ n the Agency requires all registrants of similar	reregistration revie	ew of your product		
 Subr whe Subr a 	mit and/or cite all data required for registration/ n the Agency requires all registrants of similar p mit the data listed below: . Within one year of the date on this registration (830.6317) and Corrosion Characteristics (8	reregistration revie products to submit on notice, submit S	ew of your product data.		
 Subr whe Subr a Mak a 	 mit and/or cite all data required for registration/ n the Agency requires all registrants of similar particular mit the data listed below: Within one year of the date on this registration (830.6317) and Corrosion Characteristics (8 the the following label changes: Under the Personal Protective Equipment se "Follow manufacturer's instructions for cleat instructions for washables exist, use deterged Under User Safety Recommendations, changes 	(reregistration revie products to submit on notice, submit (30.6320) studies. ection, change state ming/maintaining I nt and hot water." ge statement to rea	ew of your product data. Storage Stability ment to read PPE. If no such		
 Subr whe Subr a Mak a 	 mit and/or cite all data required for registration/ n the Agency requires all registrants of similar particular mit the data listed below: Within one year of the date on this registration (830.6317) and Corrosion Characteristics (8 the following label changes: Under the Personal Protective Equipment se "Follow manufacturer's instructions for cleat instructions for washables exist, use deterged Under User Safety Recommendations, chang clothing/PPE immediately if pesticide gets in Official: 	(reregistration revie products to submit on notice, submit \$ (30.6320) studies. (action, change state uning/maintaining I nt and hot water." ge statement to rea nside."	ew of your product data. Storage Stability ment to read PPE. If no such		

1/30

- c. Under Storage and Disposal section, change the first bullet to "**Pesticide** Storage".
- d. Change Hazards to Humans and Domestic Animals to read "Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wear longsleeved shirt and long pants, socks, shoes, and chemical-resistant gloves."
- e. Change following statements to read:
 "To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.
 - To the extent consistent with applicable law, Source Dynamics LLC disclaims any liability whatsoever...of this product."
- f. Revise the EPA Registration Number to read, "EPA Reg. No. 82542-6."

Submit one copy of the revised final printed label for the record.

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

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

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

Enclosure

Source Dynamics draft label June 17, 2008

THOFUMESATE 42SC HERBICIDE

SUSPENSION CONCENTRATE BROAD SPECTRUM HERBICIDE

For selective control of weeds in sugar beets, garden beets, onions, garlic inder the Federal Insecticide, shallots (in all states) and carrots (in WA and OR only)

GRASS SEED HERBICIDE

For Selective Control of Weeds in Certain Grass Seed Crops and Commercial Sod Production in California, Idaho, Nevada, Oregon, and Washington

ACCEPTED with COMMENTS In EPA Letter Dated:

NOV 1 8 2008 Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

82542

ACTIVE INGREDIENT Percent by Weight Ethofumesate: (2-ethoxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methanesulfonate*)......42% **TOTAL 100%**

This product contains 4.0 lb. active ingredient per gallon. Product of India

EPA Reg. No. 82542-

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION

For MEDICAL and TRANSPORTATION Emergencies Call 24 Hours A Day 1-800-334-7577

Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist.

FIRST AID

IF	Immediately call a poison control center or doctor for treatment advice.
SWALLOWED:	Do not induce vomiting unless told to do so by a poison control center or doctor.
	Have person sip a glass of water if able to swallow.
	Do not give anything by mouth to an unconscious person.
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.
IF ON SKIN OR	Take off contaminated clothing.
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.
l	Call a poison control center or doctor for treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear:

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

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- Shoes plus socks

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

ENGINEERING CONTROLS STATEMENT

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

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

GENERAL USE PRECAUTIONS

Ethofumesate 42SC Herbicide or tank mixes should be used for recommended purposes and at recommended rates only. DO NOT OVERTREAT.

Do not graze livestock on treated crops.

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

If crop is lost due to climatic or soil conditions following application of Ethofumesate 42SC or tank mixes, do not plant crops other than sugar beets or ryegrass in treated land during the same season. Do not retreat field with Ethofumesate® 42SC. If fields are replanted to sugar beets, reseed into treated band.

Do not rotate with any crops other than sugar beets or ryegrass for:

• 12 months following preplant incorporated, preemergence, conventional postemergence applications, or split (low rate) applications totaling more than 12 fl. oz. (0.375 lb. ai/acre);

• 6 months following split (low rate) postemergence applications totaling 12 fl. oz. (0.375 lb. ai/acre) or less.

Thorough tillage, including moldboard plowing, should precede the planting of crops other than sugar beets or ryegrass. Do not use Ethofumesate® 42SC on muck or peat soils.

Do not allow spray mixture to stand in tank overnight. Flush and drain spray equipment after each day's use.

Store unused spray mixture in tightly-sealed containers and protect from frost.

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

STORAGE AND DISPOSAL

STORAGE: Protect Ethofumesate 42SC Herbicide from freezing temperatures.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

DO NOT REUSE EMPTY CONTAINER.

DIRECTIONS FOR USE

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

Read entire Directions for Use and Disclaimer of Warranties before using this product.

SHAKE CONTAINER WELL BEFORE USING.

Do not apply this product in a way that will contact workers or others persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

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

- Coveralls
- · Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

SUGAR BEETS GENERAL INFORMATION

Ethofumesate 42SC is a selective herbicide for use in sugar beets for the control of the weed species listed below. It provides effective control of these weeds for up to 10 weeks following application.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

PRECAUTIONS

Following a preemergence treatment of Ethofumesate 42SC Herbicide, do not apply conventional rates of Ethofumesate 42SC postemergence where more than 6 pints were applied preplant or preemergence. No more than a total of 1 gallon of Ethofumesate 42SC should be applied in a single growing season. See Use Precautions for additional information on proper use.

WEED SPECIES CONTROLLED

Annual Broadleaf Weeds

Black nightshade	Solanum nigrum
Common chickweed	Stellaria media
Common lambsquarters	Chenopodium album
Common purslane	
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Pennsylvania smartweed	Polygonum pennsylvanicum
Redroot pigweed	Amaranthus retroflexus
Russian thistle	Salsola kali var. tenuifolia
Wild buckwheat	

Annual Grass Weeds

Annual bluegrass	Poa annua
Barnyardgrass*	
Canarygrass	Phalaris canariensis
Green foxtail	
Large crabgrass	Digitaria sanguinalis
Volunteer barley	
Volunteer wheat	-
Wild oats**	Avena fatua
Yellow foxtail	Setaria glauca

*Control of barnyardgrass may be reduced with the Ethofumesate® 42SC + Pyramin® tank mix because of the lower rate of Ethofumesate 42SC recommended.

**Control of wild oats has been inconsistent in Minnesota and North Dakota.

Ethofumesate 42SC alone will also reduce competition from these HARD-TO-CONTROL weeds:

Annual Sowthistle	Sonchus oleraceus
Puncturevine	Tribulus terrestris
Shepherdspurse	Capsella bursa-pastons
	Cyperus rotundus
	Cyperus esculentus
Apply tank mixes only in specific	ed regions or States and in accordance

with directions on label.

PREPLANT INCORPORATED AND PREEMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of Ethofumesate 42SC Herbicide and tank mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply Ethofumesate 42SC Herbicide alone or in tank mixes to the soil using standard low pressure (20 to 50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the recommended rates of Ethofumesate® 42SC or tank mixes in 10 to 60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying Ethofumesate 42SC or tank mixes in a band, check to make certain that the band width is accurate for the dosage rate being applied.

The spray tank and lines should be thoroughly cleaned and rinsed prior to using Ethofumesate 42SC.

INCORPORATION EQUIPMENT: Where soil incorporation is recommended, use a hooded power- or ground-driven rotary tiller, rolling cultivator, or similar equipment properly adjusted to uniformly incorporate Ethofumesate 42SC Herbicide or tank mixes to a depth of 1 to 2 inches. Deeper incorporation may reduce effectiveness. Do not apply Ethofumesate 42SC or tank mixes through soil injector shanks. Incorporation should be accomplished prior to planting. If done after planting, proper precautions should be taken to avoid damaging or moving the crop seed. See below for Layering Application.

LAYERING APPLICATION: Spring: Form beds with appropriate bedding equipment. Pre-irrigate field if necessary. Remove bed top with suitable de-ridging machinery to provide a minimum width of 10" across the top of the bed. Apply Ethofumesate 42SC Herbicide in a band at the recommended rate indicated in the appropriate regional dosage table and cover the treated band with 1 inch of soil using ditchers or disc equipment. Shape the bed with roller shaper and irrigate until the tops of the beds are thoroughly wetted. Irrigate from furrows on both sides of the row.

Fall: This method of application can be used when spring moisture is marginal or where irrigation water is not available at planting time. Fall bedding utilizes the winter-accumulated moisture to enhance activation of the herbicide and to aid in germination of the sugar beet crop.

Prepare the field (as for planting; plow, pack, and float, etc.), in the fall, usually late September or October. Apply Ethofumesate 42SC in a band to the soil surface at the recommended rate indicated in the appropriate regional dosage table. Be sure that the soil surface to be treated is free of trash and vegetation.

Cover the treated bands with soil and form beds or ridges using ditchers or di42SCs. In the spring when the soil is sufficiently dry to be worked, de-ridge the beds down to within 1/2" to 1" of the treated layer using suitable equipment such as the Kirchner bedder or Oregon Northslope harrow. When de-ridging, maintain the original bedding guidance system by using a bull tongue chisel, slide guides or similar equipment. This will ensure that the planter will follow in the treated band. Plant sugar beets in the de-ridged area when the soil conditions allow.

GENERAL APPLICATION

Sugar beets grown under rainfall: Apply Ethofumesate 42SC Herbicide alone or in a tank mix preemergence at time of planting or shortly after, but prior to weed germination. Ethofumesate 42SC or tank mix does not require mechanical soil incorporation provided that sufficient rainfall occurs shortly following application to activate the chemical. One-half inch of rainfall is usually adequate for activation. In areas where rainfall can be marginal for activation, such as the Red River Valley (Minnesota and North Dakota), it is recommended that Ethofumesate 42SC or the tank mix be applied before or at the time of planting and incorporated into the soil.

Sugar beets grown under furrow irrigation: Apply Ethofumesate 42SC Herbicide alone or in a tank mix to the soil surface preplant or at time of planting, but prior to weed germination, and incorporate into the soil. Where sugar beets are grown in beds, apply Ethofumesate 42SC or tank mix after bedding and incorporate. Since Ethofumesate 42SC or tank mix must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted.

Sugar beets grown under sprinkler irrigation: Apply Ethofumesate 42SC Herbicide alone or in tank mix preemergence at time of planting or shortly after, and irrigate prior to crop and weed germination. Repeat irrigation as necessary to maintain good moisture in upper soil layer. Apply at least one-half inch of water during first irrigation. Do not mechanically incorporate Ethofumesate 42SC or tank mix into the soil under sprinkler irrigation.

CULTURAL PRACTICES FOLLOWING APPLICATION: When properly applied, Ethofumesate 42SC Herbicide alone or in a tank mix will provide up to 10 weeks control of susceptible weed species. When cultivating fields in which Ethofumesate 42SC or tank mixes have been banded, care should be exercised to minimize the movement of untreated soil into the treated band. Where a broadcast application has been made, do not cultivate deeper than two inches, as this reduces the effectiveness of Ethofumesate 42SC or tank mixes.

ETHOFUMESATE 42SC ALONE DOSAGE TABLE 1

(All Regions Except North Dakota and Minnesota):

Soil Texture	Rate of Ethofumesate 42SC per Acre ¹				
		7-inch Band Width ²			
	Broadcast	22" Row	28" Row	30" Row 1/2 to 1 pint	
Coarse Textured Soils: Sands, loamy sands and sandy loams	2 1/4 to 3 3/4 pints	3/4 to 1 1/4 pints	2/3 to 1 pint		
Medium Textured Soils: Silt loams, clay loams which contain less than 3% organic matter	3 3/4 to 6 pints	1 1/4 to 2 pints	1 to 1 1/2 pints	1 to 1 1/2 pints	
Fine Textured Soils: Silt loams, clay loams, clays which contain more than 3% organic matter	6 to 7 1/2 pints	2 to 2 1/2 pints	1 1/2 to 2 pints	1 1/2 to 1 3/4 pints	

1 Use the higher rate within each soil texture category on the finer texture soils and/or where Kochia, barnyardgrass or black nightshade are expected to be a problem.

2 For other band or row widths, adjust the rate in proportion to the area actually treated.

DOSAGE TABLE 2

	(North Dakota and Minn		
Soil Texture	Ethofumesate 42SC per Acre		
- - -	Broadcast	7-inch Band Width ¹ 22" Row	
Coarse Textured Soils: Sandy loams only	6 pints	2 pints	
Medium Textured Soils: Silt loams and clay loams	6 pints	2 pints	
Fine Textured Soils: Heavy clays	7 1/2 pints	2 1/2 pints	

1 For other band or row widths, adjust the rate in proportion to the area actually treated.

ETHOFUMESATE 42SC + PYRAMIN® (TANK MIX)

This tank mix controls these additional broadleaf weeds:

Annual sowthistle	Sonchus oleraceus
Black mustard	
Buffalobur	Solanum rostratum
Coast fiddleneck	
Common groundsel	Senecio vulgaris
Common ragweed	Ambrosia artemisiifolia
Cutleaf nightshade	Solanum triflorum
Groundcherry	Physalis spp.
Henbit	Lamium amplexicaule
Nettleleaf goosefoot	Chenopodium murale
Prickly lettuce	Lactuca serriola
Prostrate knotweed	Polygonum aviculare
Shepherdspurse	Capsella bursa-pastoris

MIXING DIRECTIONS: When mixing Ethofumesate 42SC Herbicide in the spray tank with Pyramin, fill the spray tank with 1/2 of the total amount of water to be used and add Ethofumesate 42SC first. Agitate spray solution thoroughly and continuously. See Pyramin label for additional mixing directions.

CALIFORNIA (winter-grown sugar beets only): Under sprinkler irrigation or where natural rainfall is adequate, apply this tank mix preemergence. See Pyramin label for precautions regarding application of sprinkler irrigation. Where furrow irrigation is to be used, apply preplant incorporated. Prepare seedbed or form beds for planting. Then use rotary tiller type of incorporation and incorporate not more than 2 inches

deep. Plant sugar beets and irrigate. Sub-irrigate until tops of beds are thoroughly wetted. Refer to *Dosage Table 3* for recommended rates.

Soil Texture	Ethofumesate	42SC per Acre	PYRAMIN DF per Acre		
	Broadcast (For calibration purposes only	10-inch Band Width ^{1,2} 30" Row	Broadcast (For calibration purposes only	10-inch Band Width 30″ Row	
Coarse Textured Soils: Sands, loamy sands and sandy loams	f	NOT REC	OMMENDED		
Medium Textured Soils: Silt loams, clay loams which.contain less than 3% organic matter	3 to 3 1/4 pints	1 to 1 1/4 pints	4 1/2 pounds	1 1/2 pounds	
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clays	4 to 5 1/4 pints	1 1/3 to 1 3/4 pints	4 1/2 pounds	1 1/2 pounds	

	DOSAGE TA	BLE 3	
(California,	winter-grown	sugar beets	only

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1 For other band or row widths, adjust rates in proportion to the area actually treated. Do not apply this mixture broadcast.

2 Use the higher rate of Ethofumesate® 42SC within each soil texture category on the finer-textured soils and/or where volunteer barley or wheat are expected to be a problem.

PRECAUTIONS: Do not exceed 3/4 inch of sprinkler irrigation per set until the beets have two true leaves. Do not use the tank mix under conditions where Pyramin alone is not recommended. Before use, read the Pyramin label for additional information and precautions.

CENTRAL AND EASTERN STATES, INCLUDING MICHIGAN AND OHIO: This tank mix controls the additional weed, common ragweed, and other broadleaf weeds specified in the weed table. Apply preemergence at the time of planting or shortly after, but before weed germination, using recommended rates listed in *Dosage Table 4*. Do not mechanically incorporate the herbicides into the soil as crop injury may result. Do not use this tank mix where Pyramin alone is not recommended. Before use, read Pyramin label for additional information and precautions.

Ethofumesate 42SC/Acre			PYRAMIN FL/Acre		
	7-inch Band Width ¹			7-inch Band Width ¹	
Broadcast	22" Row	28" Row	Broadcast	22" Row	28" Row
3 pints	1 pint	3/4 pint	2 1/4 quart	3/4 quart	1/2 quart
4 pints	1 1/4 pints	1 pint	3 quarts	1 quart	3/4 quart
5 pints	1 1/2 pints	1 1/4 pints	3 quarts	1 quart	3/4 quart
	Broadcast 3 pints 4 pints	7-inch BaBroadcast22" Row3 pints1 pint4 pints1 1/4 pints5 pints1 1/2	7-inch Band Width1Broadcast22" Row28" Row3 pints1 pint3/4 pint4 pints1 1/41 pint5 pints1 1/21 1/4	7-inch Band Width¹Broadcast22" Row28" RowBroadcast3 pints1 pint3/4 pint2 1/4 quart4 pints1 1/4 pints1 pint3 quarts5 pints1 1/21 1/43 quarts	7-inch Band Width17-inch B Width1Broadcast22" Row28" RowBroadcast22" Row3 pints1 pint3/4 pint2 1/4 quart3/4 quart4 pints1 1/4 pints1 pint3 quarts1 quart5 pints1 1/21 1/43 quarts1 quart

Central and Fastern States Only):

1 For other band or row widths, adjust the rate in proportion to the area actually treated.

PREPLANT AND PREEMERGENCE USE PRECAUTIONS

Ethofumesate 42SC Herbicide applied alone or in tank mixes according to label directions and under normal growing conditions may cause temporary leaf fusion, distortion and stunting. Crop injury may occur during early growth when crop is stressed due to herbicide residue carryover, highly saline or alkaline soils, unusually cold and wet weather or improperly placed fertilizers or soil insecticides.

Unusually dry, windy weather, which dries the upper soil layer, following application of Ethofumesate 42SC, may reduce effectiveness.

DO NOT OVERTREAT: The use of higher than recommended rates may cause beet injury and/or carry over problems.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with conventional rates of Ethofumesate 42SC in the same season.

POSTEMERGENCE APPLICATION GENERAL INFORMATION

The tank mixes of Ethofumesate 42SC Herbicide plus Betamix® or Betanex® Herbicides applied postemergence broaden and enhance the control of weeds. The choice of tank mixes is dependent upon weed species present. Ethofumesate® 42SC alone is not recommended for postemergence use.

Tank mixes of Ethofumesate 42SC plus Betamix® or Betanex® applied postemergence control the following weeds:

Annual Broadleaf Weeds

Annual sowthistle	Sonchus oleraceus
Black nightshade	Solanum nigrum
Hairy nightshade	
Coast fiddleneck	
Common chickweed	
Common lambsquarters	
Common ragweed	Ambrosia artemisiifolia
Groundcherry	
Kochia*	
Ladysthumb	
London rocket	
Nettleleaf goosefoot	Chenopodium murale
Pennsylvania smartweed	. Polygonum pennsylvanicum
Prostrate pigweed	
Redroot pigweed	Amaranthus retroflexus
Purslane	
Shepherdspurse	Capsella bursa-pastoris
Wild buckwheat	Polygonum convolvulus
Wild mustard	Brassica kaber
*Spray kochia while in the rosette s	tage, less than one inch in diameter.

Annual Grass Weeds

Mixing the Spray: Add Ethofumesate 42SC to the water in the spray tank followed by Betamix® or Betanex® while agitating the spray solution thoroughly. Refer to the Betamix® or Betanex® labels for additional precautions and information on mixing.

Spray Equipment: Apply the mixture using standard low pressure (20–60 psi) spray equipment. Ensure that the sprayer is thoroughly clean. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Uniformly apply the recommended rate in 20–60 gallons of water per acre on a broadcast basis or 5–10 gallons of water per acre in a band. Avoid overlaps, since crop injury may result. When applying in a band, check to make certain that the band width is accurate for the dosage rate being applied. Do not use strainer smaller than 50-mesh.

Moisture Following Application/Residual Weed Control: Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed control; however, with conventional rates, moisture after this period of time is advantageous for moving Ethofumesate 42SC into the top layer of soil where it can be absorbed by the roots of sprayed and germinating weeds to provide optimum control. One-half inch or more of sprinkler irrigation is required to activate Ethofumesate 42SC on most soil types.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

PRECAUTIONS

Following a preemergence treatment of Ethofumesate 42SC Herbicide, do not apply conventional rates of Ethofumesate 42SC postemergence where more than 6 pints were applied preplant or preemergence. No more than a total of 1 gallon of Ethofumesate 42SC should be applied in a single growing season. See *Use Precautions* for additional information on proper use.

SPLIT (LOW RATE) APPLICATIONS

Split (low rate) applications of Ethofumesate 42SC Herbicide + Betamix® or Betanex® Herbicides may be applied to sugar beets to control early germinating weeds (the tank mix of Ethofumesate 42SC + Betanex® may be used in all sugar beet areas except California). The first spray must be applied when the earliest emerging weeds have reached cotyledon size. See *Dosage Table 5* for broadcast rates. See *Dosage Table* 6 and 7 for equivalent band rates. For band applications, apply in 5–10 gallons of water per acre. Any weeds which are not completely controlled by the first treatment will usually be checked and controlled by repeat applications. The repeat application should be made 5 to 7 days after the preceding applications as described below will be necessary.

DOSAGE TABLE 5 DOSAGE CHART FOR BROADCAST APPLICATION

Sugar Beet Stage	Pints/Acre Broadcast					
	ETHOFUMESATE 42SC + BETAMIX®	ETHOFUMESATE 42SC + BETANEX®				
Cotyledon	0.25 + 1.50	0.25 + 1.50				
2 Leaf	0.33 + 2.00	0.33 + 2.00				
4 Leaf	0.50 + 3.00	0.50 + 3.00				

DOSAGE TABLE 6 BETAMIX® OR BETANEX® DOSAGE CHART FOR BAND APPLICATION

BAND RATE — ROW SPACING							
Broadcast Equivalent	Band Width	22"	28"	30"			
1.5 pints/acre	5"	5.5 fl. oz.	4.3 fl. oz.	4.0 fl. oz.			
2.0 pints/acre	<u> </u>	7.6 fl. oz. 7.3 fl. oz.	6.0 fl. oz. 5.7 fl. oz.	5.6 fl. oz.			
2.0 pints/acre	7"	10.2 fl. oz.	8.0 fl. oz.	7.5 fl. oz.			
3.0 pints/acre	5"	10.9 fl. oz.	8.6 fl. oz.	8.0 fl. oz.			
	7"	15.3 fl. oz.	12.0 fl. oz.	11.2 fl. oz.			

DOSAGE TABLE 7 ETHOFUMESATE 42SC DOSAGE CHART FOR BAND APPLICATION

BAND RATE — ROW SPACING						
Broadcast Equivalent	Band Width	22"	28"	30"		
0.25 pint/acre	5"	0.9 fl. oz.	0.7 fl. oz.	0.7 fl. oz.		
	7"	1.3 fl. oz.	1.0 fl. oz.	0.9 fl. oz.		
0.33 pint/acre	5"	1.2 fl. oz.	0.9 fl. oz.	0.9 fl. oz.		
	7"	1.7 fl. oz.	1.3 fl. oz.	1.2 fl. oz.		
0.5 pints/acre	5"	1.8 fl. oz.	1.4 fl. oz.	1.3 fl. oz.		
	7"	2.5 fl. oz.	2.0 fl. oz.	1.9 fl. oz.		

CONVENTIONAL APPLICATIONS

Timing of Application: Apply the tank mix Ethofumesate 42SC + Betanex® or Ethofumesate® 42SC + Betamix® when sugar beets have at least 4 fully expanded true leaves. Apply at rates recommended in the Dosage Tables. Use the higher rate of Ethofumesate® 42SC where increased residual weed control is desired. Where Eptam® has been applied preplant (fall or spring applied), do not apply Ethofumesate® 42SC + Betamix® or Betanex® tank mix before the sugar beets have 6 expanded true leaves.

See Postemergence Use Precautions for additional information on proper use.

ETHOFUMESATE 42SC + BETAMIX® (TANK MIX)

Ethofumesate 42SC Herbicide applied postemergence in a tank mix with Betamix® Herbicide broadens and enhances the control of troublesome weeds. Furthermore, preemergence control of su42SCeptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate Ethofumesate 42SC.

WEED SPECIES CONTROLLED

Group I: Weeds controlled up to the 6-leaf stage.						
Redroot pigweed	Amaranthus retroflexus					
Wild mustard	Brassica kaber					
Nettleleaf goosefoot	Chenopodium murale					
London rocket	Sisymbrium irio					
Common lambsquarters	Chenopodium album					

Group II: Weeds controlled up to the 4-leaf stage.

Common chickweed	Stellaria media
Black nightshade	Solanum nigrum
Common ragweed	Ambrosia artemisiifolia
Shepherdspurse	Capsella bursa-pastoris
Groundcherry	Physalis lanceifolia
Pennsylvania smartweed	. Polygonum pennsylvanicum
Ladysthumb	Polygonum persicaria
Prostrate pigweed	Amaranthus blitoides
Coast fiddleneck	Amsinckia intermedia

Group III: Weeds controlled up to the 2-leaf stage.

Annual sowthistle	Sonchus oleraceus
Kochia*	Kochia scoparia
Common purslane**	Portulaca oleracea
Prostrate knotweed	Polygonum aviculare
Wild buckwheat	Polygonum convolvulus
Green foxtail***	Setaria viridis
Yellow foxtail (pigeongrass)***	Setaria glauca
Annual bluegrass***	Poa annua
Canarygrass***	Phalaris canariensis
*Spray kochia while in the rosette stag	e, less than 1" in diameter.
**Group II weed in California.	

***For best control, overhead moisture required

best control, overhead moisture required

DOSAGE TABLE 8

Rate of Ethofumesate 42SC Per Acre ¹					1	Rate of B	etamix® P	er Acre ¹	
	Band ² Width	Row Spacing			Broadcast	Band ²	Row Spa	icing	
		22"	28"	30"	Rate	Width	22"	28"	30"
2 1/4 - 3	7"	3/4 -	1/2 -	1/2 -	4 1/2 - 6	7"	1 1/2 -	1 1/2 -	1 1/3
pints		1 pint	3/4 pint	2/3 pint	pints		2 pints	2 pints	pints

1 Use the higher rate on larger weeds and sugar beets.

2 For other band or row widths, adjust rates in proportion to the area actually treated.

ETHOFUMESATE 42SC + BETANEX® (TANK MIX)

ALL AREAS EXCEPT CALIFORNIA: Ethofumesate 42SC Herbicide applied postemergence in a tank mix with Betanex® Herbicide broadens and enhances the control of troublesome weeds. Furthermore, preemergence control of susceptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate Ethofumesate® 42SC.

WEED SPECIES CONTROLLED

Group I: Weeds controlled up to the 6-leaf stage.

Redroot pigweed	Amaranthus retroflexus
Wild mustard	Brassica kaber
Nettleleaf goosefoot	Chenopodium murale
London rocket	
Common lambsquarters	•

Group II: Weeds controlled up to the 4-leaf stage.

Common chickweed	Stellaria media
Black nightshade	Solanum nigrum
Common ragweed	Ambrosia artemisiifolia
	Capsella bursa-pastoris
Groundcherry	Physalis lanceifolia
	Polygonum pennsylvanicum
Ladysthumb	

Group III: Weeds controlled up to the 2-leaf stage.

Annual sowthistle	Sonchus oleraceus
Common purslane	Portulaca oleracea

DOSAGE TABLE 9 (all areas except California):

			(
Rate of Ethofumesate 42SC Per Acre ¹						Rate of E	letanex® F	Per Acre ¹	
Broadcast	t Band ² Row Spacing				Broadcast	Band ²	Row Spa	acing	
Rate Wi	Width	22"	28"	30"	Rate Width	22"	28"	30"	
2 1/4 - 3	7"	3/4	1/2	1/2 -	4 1/2 - 6	7"	1 1/2	1 1/8 – 1	1
pints ·		1 pint	3/4	2/3	pints		2 pints	1/2 pints	1 1/3
			pint	pint					pints

1 Use the higher rate on larger weeds and sugar beets.

2 For other band or row widths, adjust rates in proportion to the area actually treated.

POSTEMERGENCE USE PRECAUTIONS: Make only one conventional application of Ethofumesate 42SC + Betanex® or Betamix® tank mix during each growing season.

Do not apply Ethofumesate 42SC + Betanex® or Betamix® tank mix to sugar beets later than 90 days prior to harvest.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with conventional rates of Ethofumesate 42SC in the same season.

ETHOFUMESATE 42SC + BETANEX® OR BETAMIX® MAY CAUSE SUGAR BEET INJURY OR STAND LOSS IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

• Rapid climatic changes from cool, overcast days, to hot (80°F or over), bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.

- · Frost within seven days following treatment
- Windy or drought conditions

Use of a preplant or preemergence herbicide or other chemicals

- Insect or disease injury
- Close cultivation

If stress conditions are present, delay application until crop has recovered.

DO NOT OVERTREAT: The use of higher-than-recommended rates may cause beet injury and/or carry over problems.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of application may reduce weed kill.

If Ethofumesate 42SC is applied on fields with heavy crop residue, such as from a previous corn crop, reduced weed control may occur.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

IMPORTANT: This tank mix may cause temporary growth retardation and/or chlorosis or tip-burn on sugar beets. Sugar beets usually resume normal growth within 10 days.

ETHOFUMESATE 42SC MIXTURES WITH FERTILIZERS

ETHOFUMESATE 42SC IMPREGNATION ON DRY BULK FERTILIZERS

Ethofumesate42SC Herbicide may be impregnated on many dry bulk fertilizers (See "1" below.) and applied and incorporated into the soil before planting for the control of labeled grasses and broadleaf weeds in sugar beets.

All Ethofumesate 42SC label and supplementary literature instructions and precautions regarding rates per acre, soil type and soil incorporation, application, and other directions 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 Ethofumesate/fertilizer mixtures.

A minimum of 200 pounds and a maximum of 700 pounds of approved fertilizer ingredients (See "2" below.) impregnated with the appropriate amount of Ethofumesate 42SC must be applied per acre.

For impregnating the pesticide on dry fertilizers, use a closed rotary-drum type mixer equipped with suitable spraying equipment. The spray nozzles should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer. The Ethofumesate 42SC should be sprayed uniformly onto the fertilizer using a fine spray pattern.

The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with Ethofumesate 42SC provides a satisfactory dry mixture.

If the absorptivity is not adequate, use of a highly absorptive powder is required to provide a dry, free-flowing mixture. Microcel E (Johns-Manville Products Corporation) is the recommended absorbent powder. It should be added separately and uniformly to the prepared pesticide/fertilizer mixture in a quantity that is sufficient to provide a suitably free-flowing mixture. Generally, less than 2% by weight of Microcel E is required.

The amount of Ethofumesate 42SC actually required in the formulation of specific fertilizer mixtures should be calibrated carefully for each production operation. This is necessary to ensure that the amount of Ethofumesate 42SC actually contained in the fertilizer mixture applied to the soil represents the correct dosage rate.

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Bulk fertilizers impregnated with Ethofumesate 42SC should be applied immediately, NOT STORED.

ETHOFUMESATE 42SC IMPREGNATION ON DRY BULK FERTILIZERS

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1. Approved dry fertilizer ingredients for use with Ethofumesate® 42SC:

ΪA Ι

	1.4	F	n
Ammonium nitrate	34	0	0
Ammonium sulfate	21	0	0
Ammonium phosphate-sulfate	1.6	20	0
Diammonium phosphate	18	46	0
Monoammonium phosphate	11	56	0
Potassium chloride	0	0	60
Potassium sulfate	0	0	52
Single superphosphate	0	20	0
Triple superphosphate	0	46	0
Urea	45	0	0

Ethofumesate 42SC Physical Data

Density :1.14 g/cm³Pounds/gallon:9.50Flash point:noncombustible

2. Rate Chart for the Impregnation of Dry Bulk Fertilizers with Ethofumesate® 42SC:

Fertilizer Rate (Ib/acre)	Impregnation Rate		
	0.75 gallon/acre	1 gallon/acre	1.5 gallons/acre
200	2.80	3075	5.63
250	2.25	3.00	4.50
300	1.88	2.50	3.75
350	1.59	2.16	3.19
400	1.41	1.88	2.81
450	1.25	1.69	2.50
500	1.13	1.50	2.25
550	1.03	1.38	2.06
600	0.94	1.25	1.88
650	0.87	1.13	1.75
700	0.80	1.08	1.62

Gallons of Ethofumesate 42SC per Ton of Dry Bulk Fertilizer

ETHOFUMESATE 42SC WITH LIQUID FERTILIZERS

The following procedure is suggested for evaluation of physical compatibility of Ethofumesate 42SC Herbicide in mixtures with liquid fertilizers for spray tank application.

MATERIAL REQUIRED

- 1. Ethofumesate 42SC—components of tank mixes if intended for use
- 2. Liquid fertilizer to be used
- 3. Adjuvant for fertilizer tank mix: Compex* or E-Z Mix**.
- 4. Two (or more) one quart, wide mouth containers with lids or stoppers
- 5. Measuring spoons---(25 ml pipette or graduated cylinder provides more accurate measurement)

6. Measuring cup. 8 fl. oz. (237 ml)

*Compex-Kalo Laboratories, Inc., Kansas City, MO

**E-Z Mix--United Agri-Products, Greeley, CO

PROCEDURE

1. Pour one pint (473 ml) of the liquid fertilizer into each of the quart containers.

2. Add adjuvant(s) to one or more of the containers and mix; follow label directions of adjuvant.

3. Add the Ethofumesate 42SC and tank mix components to the containers (see rate table below).

4. Close the containers with lids or stoppers and mix contents by inverting the containers ten times.

5. Inspect the surface and body of the mixture:

- a. immediately after mixing,
- b. after allowing mixtures to stand guietly for 30 minutes,
- c. immediately after mixing again (invert the containers ten more times).

If a uniform mixture does not occur, the spray tank mixture should not be used. If any of the mixtures remain uniform for 30 minutes, that mixture may be used in spray tank applications. Should any of the mixtures separate after 30 minutes but remix readily into a uniform mixture with inversion of the container, the mixture may be used provided that adequate agitation is maintained in the spray tank. If an Ethofumesate 42SC + fertilizer mixture utilizing an adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank at the rate recommended on the label which was used in this test.

If non-dispersible oil, sludge, or clumps of solids form in the mixtures, those combinations should not be used for spray tank application.

Gallons of Liquid Fertilizer to	Amount of Ethofumesate 42SC	nount of Ethofumesate 42SC to be Added to 1 Pint of Fertilizer	
be Applied per Acre	Milliliters	Teaspoons	
20	17.6	3.6	
30	12.0	2.4	
40	9.0	1.9	
50	7.1	1.5	
60	6.0	1.2	

RATE TABLE FOR ETHOFUMESATE 42SC MIXTURES WITH LIQUID FERTILIZERS

*Based on field use rate of 3.0 lb. ai/acre (3/4 gal/acre) in the fertilizer volumes indicated. Adjust amount of Ethofumesate 42SC added proportionately to correspond with intended field use rate recommended on Ethofumesate 42SC label for soil type. Add the proportionate amount of tank mix component (e.g., Pyramin) if intended for use, based on volume of Ethofumesate 42SC used in the test.

RYEGRASS, TALL FESCUE, BENTGRASS, AND KENTUCKY BLUEGRASS SEED CROPS

(For use in California, Idaho, Nevada, Oregon, and Washington only)

GENERAL INFORMATION

Ethofumesate 42SC is a selective herbicide for use in ryegrass, tall fescue, and bentgrass seed crops in California, Idaho, Nevada, Oregon, and Washington. It effectively controls or reduces competition from those weed species listed below. Ethofumesate 42SC may be applied preemergence to new seedings of annual or perennial ryegrass or postemergence to perennial ryegrass, tall fescue, or bentgrass.

Application to bentgrass is restricted to plantings which have been established for one year or longer. Soil should be moist at time of application. Ethofumesate 42SC is less effective when applied to dry soil. Rainfall or overhead irrigation shortly after application is necessary for activation.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter/thatch increases.

WEEDS CONTROLLED

Annual bluegrass	Poa annua
Seedling Rattail fescue	Festuca myuros
Seedling volunteer wheat	
Seedling volunteer barley	
Soft chess	
Seedling Wild oats	Avena fatua
Downy brome	
Common chickweed	Stellaria media
Common vetch	Vicia sativa
Common velvetgrass	Holcus lanatus
Mannagrass	Glyceria spp.
Barnyardgrass	
Canarygrass	Phalaris canariensis
Green foxtail	
Large crabgrass	Digitaria sanguinalis
Yellow foxtail	Setaria glauca

Spray equipment: Use a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery. Do not use smaller than 50-mesh strainer. Avoid overlapping of spray swath. Shut off boom while starting, turning or stopping to avoid overlapping. Apply in 10 to 50 gallons of water per acre at low pressure (20 to 50 psi).

Soil preparation: A firm, fine and level seedbed free of trash and vegetative matter will provide best results from preemergence applications. Large clods can reduce effectiveness of Ethofumesate 42SC. All existing vegetative growth should be thoroughly worked into the soil before treatment.

NEW SEEDINGS OF ANNUAL OR PERENNIAL RYEGRASS

Before weed emergence: Apply Ethofumesate 42SC Herbicide after seeding and prior to weed emergence. For best results apply to moist soil.

Apply 1 1/2 to 3 pints per acre. Use the lower rate for control of common chickweed. For control of rattait fescue, wild oats, and volunteer cereals and other weeds listed, use 2 1/4 to 3 34 pints per acre.

After weed emergence: Apply Ethofumesate 42SC at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2 1/4 to 3 3/4 pints per acre. Use the highest rate where rattail fe42SCue, wild oats, and volunteer cereals are present and where weed infestation is heavy.

NEW SEEDINGS OF FALL-PLANTED PERENNIAL RYEGRASS AND TALL FESCUE TREATED WITH DIURON PLUS CHARCOAL

Timing of application: Apply Ethofumesate 42SC Herbicide following crop emergence and after sufficient rainfall and/or overhead irrigation has occurred to dissipate the charcoal band (approximately 4 inches). Use dosage rates listed in *Dosage Table 10*. Surface debris may result in reduced weed control. Failure to allow for complete dissipation of the charcoal band may result in reduced weed control within the crop row. For best results, apply Ethofumesate 42SC to a moist soil surface.

Before using diuron, read the diuron label for rate recommendations, timing of applications, directions for use, and precautionary statements. Do not exceed maximum dosage rates for either herbicide.

NOTE: Do not apply Ethofumesate 42SC when crop shows diuron injury.

DOSAGE TABLE 10

Сгор	Rate per Acre	Remarks
Perennial ryegrass and tall fescue	1 1/2 – 3 pints	Perennial ryegrass and tall fescue 1 1/2 to 3 pints For effective control, annual bluegrass must be treated before the 4-leaf stage; rattail fescue, wild oats, and volunteer wheat must be treated before the 2-leaf stage. Use the lower rate for control of annual bluegrass and common chickweed; use the higher rate for control of rattail fescue, wild oats, and other weeds listed.

After weed emergence: Apply Ethofumesate 42SC at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2 1/4 to 3 3/4 pints per acre. Use the highest rate where rattail fescue, wild oats, and volunteer cereals are present and where weed infestation is heavy.

ESTABLISHED STANDS OF PERENNIAL RYEGRASS AND TALL FESCUE

Before weed emergence: Apply Ethofumesate 42SC Herbicide at 2 1/4 to 3 3/4 pints per acre prior to weed emergence. Use higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem. For best results, apply to moist soil. Crop residue and debris will reduce effectiveness of treatment and should be removed or destroyed.

After weed emergence: Apply Ethofumesate 42SC Herbicide at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2 1/4 to 3 pints per acre. Use the higher rate where rattail fescue, wild oats, and volunteer cereals are present. Where weed pressure is very heavy and rattail fescue is at the maximum stage of growth for treating, a rate of 3 3/4 pints of Ethofumesate 42SC is recommended.

ESTABLISHED STANDS OF BENTGRASS

Apply only to well-established stands which have been seeded for not less than 12 months. Straw from previous crop must be removed or destroyed. Failure to do so may result in reduced weed control.

Before weed emergence: Apply Ethofumesate 42SC Herbicide at 1 1/2 to 3 pints per acre prior to weed emergence. Use higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem. For best results, apply to moist soil.

After weed emergence: Apply Ethofumesate 42SC at earliest possible weed growth stage, but no later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply at the rate of 1 1/2 to 3 pints per acre. Use higher rate when rattail fescue, wild oats, and volunteer cereals are a problem. Do not apply more than 3 pints of Ethofumesate 42SC per acre on bentgrass.

ESTABLISHED STANDS OF KENTUCKY BLUEGRASS(UNDER IRRIGATION ONLY)

Apply only to established stands which have been seeded for at least 12 months. Crop residues, carbon, and debris should be removed. Failure to do so may result in reduced weed control. Ethofumesate 42SC Herbicide is compatible with currently labeled grass seed herbicides. Consult your local fieldman for recommended uses.

Before weed emergence: Apply Ethofumesate 42SC at 2 pints per acre prior to weed emergence. For best results, apply to moist soil. Apply at least 1/2 inch irrigation within 2 to 3 days after treatment to incorporate Ethofumesate 42SC.

After weed emergence: Apply Ethofumesate 42SC at 2 pints per acre at the earliest possible weed growth stage, but no later than the 4-leaf stage. For best results, apply to moist soil. Apply at least 1/2 inch irrigation within 2 to 3 days after treatment to incorporate Ethofumesate 42SC.

USE PRECAUTIONS

Ethofumesate 42SC Herbicide may cause stunting and stand reduction of newly seeded perennial ryegrass and tall fescue if the crop is planted late in the fall and subjected to adverse climatic conditions or pesticides which restrict normal growth.

If vegetative matter or stover from previous crop was burned, sufficient rainfall or overhead irrigation must have occurred to dissipate the charcoal residue remaining after burning prior to Ethofumesate 42SC treatment. Failure to allow for dissipation of charcoal residue may result in reduced weed control.

COMMERCIAL SOD PRODUCTION (For use in California, Idaho, Nevada, Oregon, and Washington only)

GENERAL INFORMATION

Ethofumesate 42SC is a selective herbicide for use in established and newly planted tall fescue and perennial ryegrass grown for sod in California, Idaho. Nevada, Oregon and Washington. Ethofumesate 42SC may be applied preemergence or postemergence for the control of weed species listed below.

Overhead irrigation or rainfall shortly after application is necessary for activation.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter/thatch increases.

WEEDS CONTROLLED

Annual bluegrass	Poa annua
	Digitaria sanguinalis
	Setaria glauca
	Phalaris canariensis
	Hordeum sp
•	
	Avena fatua

Rattail fescue	Festuca myuros
Common velvetgrass	Holcus lanatus
Mannagrass	
Downy brome	
Soft chess	

Spray equipment: Use a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery. Do not use smaller than a 50-mesh strainer. Avoid overlapping of spray swath. Shut off boom while starting, turning, or stopping to avoid over-application. Make applications in 10 to 50 gallons of water per acre at low pressure (20 to 50 psi).

Soil preparation: All existing vegetative matter should be thoroughly worked into the soil surface before planting. Large clods, trash, or vegetative matter left on the soil surface will reduce effectiveness of the Ethofumesate 42SC treatment.

NEWLY PLANTED PERENNIAL RYEGRASS AND TALL FE42SCUE GROWN FOR SOD

Apply Ethofumesate 42SC Herbicide to newly planted areas when crop reaches the 2- to 3-leaf stage of growth. For best results, apply to moist soils.

Before weed emergence: Apply Ethofumesate 42SC at 2 1/4 to 3 pints per acre prior to weed emergence. Use the higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem.

After weed emergence: Apply Ethofumesate 42SC at earliest possible weed growth stage but no later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply Ethofumesate 42SC at 2 1/4 to 3 pints per acre.

ESTABLISHED PERENNIAL RYEGRASS AND TALL FESCUE SOD

For preemergence and/or postemergence control of susceptible weeds, apply Ethofumesate 42SC Herbicide prior to weed emergence or at the earliest possible weed growth stage, but not later than the 4leaf stage. For best results, apply to moist soils. Apply Ethofumesate 42SC at 2 1/4 to 3 pints per acre.

Repeat applications at 4 to 8 week intervals may be needed to maintain weed control. DO NOT apply more than 1 gallon of Ethofumesate 42SC per acre per growing season.

USE PRECAUTIONS

Ethofumesate 42SC may cause stunting and stand reduction of newly seeded perennial ryegrass and tall fescue, if the crop is planted late in the fall and subjected to adverse climatic conditions or pesticides which restrict normal growth.

If vegetative matter or stover from previous crop was burned, sufficient rainfall or overhead irrigation must have occurred to dissipate the charcoal residue remaining after burning prior to Ethofumesate 42SC treatment. Failure to allow for dissipation of charcoal residue may result in reduced weed control.

BEETS, TABLE (GARDEN)

GENERAL INFORMATION

Ethofumesate 42SC is a selective herbicide for use in table beets for the control of the weed species listed below.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

WEED SPECIES CONTROLLED

Annual Broadleaf Weeds

Black nightshade	Solanum nigrum
Common chickweed	
Common lambsquarters	Chenopodium album
Common purslane	Portulaca oleracea
Eastern black nightshade	Solanum ptycanthum
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Pennsylvania smartweed	Polygonum pennsylvanicum
Redroot pigweed	Amaranthus retroflexus
Russian thistle	Salsola kali var. tenuifolia
Wild buckwheat	Polygonum convolvulus

Annual Grass Weeds

Annual bluegrass	Poa annua	
Barnyardgrass	Echinochloa crus-galli	
Canarygrass	Phalaris canariensis	
Green foxtail	Setaria viridis	
Large crabgrass	Digitaria sanguinalis	
Volunteer barley	Hordeum sp.	
Volunteer wheat		
Wild oats**	Avena fatua	
Yellow foxtail	Setaria glauca	
**Control of wild oats has been inconsistent in Minnesota and North Dakota.		

Ethofumesate 42SC alone will also reduce competition from these HARD-TO-CONTROL weeds:

Annual Sowthistle	Sonchus oleraceus
Puncturevine	Tribulus terrestris
Shepherdspurse	Capsella bursa-pastoris
Purple nutsedge	Cyperus rotundus
Yellow nutsedge	••
5	egions or States and in accordance with directions on label.

GENERAL APPLICATION

Table beets grown under rainfall: Apply Ethofumesate 42SC Herbicide alone or in a tank mix preemergence at time of planting or shortly after, but prior to weed germination. Ethofumesate 42SC or tank mix does not require mechanical soil incorporation provided that sufficient rainfall occurs shortly following application to activate the chemical. One-half inch of rainfall is usually adequate for activation. In areas where rainfall can be marginal for activation, it is recommended that Ethofumesate® 42SC be applied before or at the time of planting and incorporated into the soil.

Table beets grown under furrow irrigation: Apply Ethofumesate 42SC Herbicide alone or in a tank mix to the soil surface preplant or at time of planting, but prior to weed germination. Where table beets are grown in beds, apply Ethofumesate 42SC or tank mix after bedding and incorporate. Since Ethofumesate 42SC must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted.

Table beets grown under sprinkler irrigation: Apply Ethofumesate 42SC Herbicide alone or in tank mix preemergence at time of planting or shortly after, and irrigate prior to crop and weed germination. Repeat irrigation as necessary to maintain good moisture in upper soil layer. Apply at least one-half inch of water during first irrigation. Do not mechanically incorporate Ethofumesate 42SC into the soil under sprinkler irrigation.

CULTURAL PRACTICES FOLLOWING APPLICATION: When properly applied, Ethofumesate 42SC Herbicide alone can provide up to 6 weeks control of susceptible weed species. When cultivating fields in which Ethofumesate 42SC has been banded, care should be exercised to minimize the movement of untreated soil into the treated band. Where a broadcast application has been made, do not cultivate deeper than two inches, as this reduces the effectiveness of Ethofumesate 42SC.

ETHOFUMESATE 42SC ALONE DOSAGE TABLE 11

DOSAGE FOR BROADCAST APPLICATIONS	
Table Beet Stage	ETHOFUMESATE 42SC FLUID OUNCES/ACRE BROADCAST
Preemergence	60
Postemergence	
2-Leaf	5.25
4-Leaf	5.25
6-Leaf to 8-Leaf	10.5

Do not exceed 96 fluid ounces (0.75 gallon) of product per season.

PREPLANT AND PREEMERGENCE USE PRECAUTIONS

Ethofumesate 42SC Herbicide applied alone or in tank mixes according to label directions and under normal growing conditions may cause temporary leaf fusion, distortion and stunting. Crop injury may occur during early growth when crop is stressed due to herbicide residue carryover, highly saline or alkaline soils, unusually cold and wet weather or improperly placed fertilizers or soil insecticides.

Unusually dry, windy weather, which dries the upper soil layer, following application of Ethofumesate 42SC, may reduce effectiveness.

DO NOT OVERTREAT: The use of higher than recommended rates may cause beet injury and/or carry over problems.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets, table beets, garlic, onions, shallots or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with preemergence rates of Ethofumesate 42SC in the same season.

PRECAUTIONS

No more than a total of 0.75 gallon of Ethofumesate 42SC should be applied in a single growing season. See *Use Precautions* for additional information on proper use.

PREPLANT AND PREEMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of Ethofumesate 42SC Herbicide and tank mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply Ethofumesate 42SC Herbicide alone or in tank mixes to the soil using standard low pressure (20 to 50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the recommended rates of Ethofumesate 42SC or tank mixes in 10 to 60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying Ethofumesate 42SC or tank mixes in a band, check to make certain that the band width is accurate for the dosage rate being applied.

The spray tank and lines should be thoroughly cleaned and rinsed prior to using Ethofumesate® 42SC.

POSTEMERGENCE APPLICATION

GENERAL INFORMATION

Ethofumesate 42SC Herbicide applied postemergence broadens and enhances the control of weeds.

Mixing the Spray: Add Ethofumesate 42SC to the water in the spray while agitating the spray solution thoroughly.

Spray Equipment: Apply the mixture using standard low pressure (20–60 psi) spray equipment. Ensure that the sprayer is thoroughly clean. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Uniformly apply the recommended rate in 10–40 gallons of water per acre on a broadcast basis or 5–10 gallons of water per acre in a band. Avoid overlaps, since crop injury may result. When applying in a band, check to make certain that the band width is accurate for the dosage rate being applied. Do not use strainer smaller than 50-mesh.

Moisture Following Application/Residual Weed Control: Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed control; however, with preemergence rates, moisture after this period of time is advantageous for moving Ethofumesate 42SC into the top layer of soil where it can be absorbed by the roots of sprayed and germinating weeds to provide optimum control. One-half inch or more of sprinkler irrigation is required to activate Ethofumesate 42SC on most soil types.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

ETHOFUMESATE 42SC MAY CAUSE CROP INJURY OR STAND LOSS IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

• Rapid climatic changes from cool, overcast days, to hot (80°F or over), bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.

- · Frost within seven days following treatment
- Windy or drought conditions
- Use of a preplant or preemergence herbicide or other chemicals
- Insect or disease injury
- Close cultivation

If stress conditions are present, delay application until crop has recovered.

DO NOT OVERTREAT: The use of higher-than-recommended rates may cause beet injury and/or carry over problems.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of application may reduce weed kill.

If Ethofumesate 42SC is applied on fields with heavy crop residue, such as from a previous corn crop, reduced weed control may occur.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

ONION, DRY BULB; GARLIC, BULB; SHALLOT, BULB

GENERAL INFORMATION

Ethofumesate 42SC is a selective herbicide for use in onion, garlic and shallot for the control of the weed species listed below.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

WEED SPECIES CONTROLLED

Annual Broadleaf Weeds

Black nightshade	Solanum nigrum
Common chickweed	Stellaria media
Common lambsquarters	Chenopodium album
Common purslane	Portulaca oleracea
Eastern black nightshade	Solanum ptycanthum
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Pennsylvania smartweed	Polygonum pennsylvanicum
Redroot pigweed	Amaranthus retroflexus
Russian thistle	Salsola kali var. tenuifolia
Wild buckwheat	

Annual Grass Weeds

Annual bluegrass	Poa annua	
Barnyardgrass	Echinochloa crus-galli	
Canarygrass	Phalaris canariensis	
Green foxtail		
Large crabgrass	Digitaria sanguinalis	
Volunteer barley	Hordeum sp.	
Volunteer wheat	Triticum sp.	
Wild oats**	Avena fatua	
Yellow foxtail	Setaria glauca	
**Control of wild oats has been inconsistent in Minnesota and North Dakota.		

Ethofumesate 42SC alone will also reduce competition from these HARD-TO-CONTROL weeds:

Annual Sowthistle	Sonchus oleraceus
Puncturevine	Tribulus terrestris
Shepherdspurse	Capsella bursa-pastoris
Purple nutsedge	Cyperus rotundus
Volunteer potato	Solanum tuberosum
•	Cyperus esculentus
	C. I

Apply tank mixes only in specified regions or States and in accordance with directions on label.

GENERAL APPLICATION

Onion, garlic and shallot grown under rainfall: Apply Ethofumesate 42SC Herbicide alone or in a tank mix preemergence at time of planting or shortly after, but prior to weed germination. Ethofumesate 42SC or tank mix does not require mechanical soil incorporation provided that sufficient rainfall occurs shortly following application to activate the chemical. One-half inch of rainfall is usually adequate for activation. In areas where rainfall can be marginal for activation, it is recommended that Ethofumesate 42SC be applied before or at the time of planting and incorporated into the soil.

Onion, garlic and shallot grown under furrow irrigation: Apply Ethofumesate 42SC Herbicide alone or in a tank mix to the soil surface preplant or at time of planting, but prior to weed germination. Where these crops are grown in beds, apply Ethofumesate 42SC or tank mix after bedding and incorporate. Since Ethofumesate 42SC must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted.

Onion, garlic and shallot grown under sprinkler irrigation: Apply Ethofumesate 42SC Herbicide alone or in tank mix preemergence at time of planting or shortly after, and irrigate prior to crop and weed germination. Repeat irrigation as necessary to maintain good moisture in upper soil layer. Apply at least one-half inch of water during first irrigation. Do not mechanically incorporate Ethofumesate 42SC into the soil under sprinkler irrigation.

CULTURAL PRACTICES FOLLOWING APPLICATION: When properly applied, Ethofumesate 42SC Herbicide alone can provide up to 6 weeks control of susceptible weed species. When cultivating fields in which Ethofumesate 42SC has been banded, care should be exercised to minimize the movement of untreated soil into the treated band. Where a broadcast application has been made, do not cultivate deeper than two inches, as this reduces the effectiveness of Ethofumesate 42SC.

ETHOFUMESATE 42SC ALONE DOSAGE TABLE 12

 DOSAGE FOR BROADCAST APPLICATIONS TO ONION, GARLIC AND SHALLOT

 Use Pattern
 ETHOFUMESATE 42SC

 FLUID OUNCES/ACRE BROADCAST
 FLUID OUNCES/ACRE BROADCAST

 Preemergence, soil surface
 16

 Coarse Soils (sand, loamy sand, sandy loam)*
 16

 Medium and Fine Soils**
 32

 Postemergence
 16

 Up to 4 foliar applications at evenly spaced intervals, with last application 30 (+/- 2) days
 16

before harvest

*On coarse soils: Do not exceed 48 fluid ounces (0.375 gallon) of product per season

**On medium and fine textured soils: Do not exceed 96 fluid ounces (0.75 gallon) of product per season.

PREPLANT AND PREEMERGENCE USE PRECAUTIONS

Ethofumesate 42SC Herbicide applied alone or in tank mixes according to label directions and under normal growing conditions may cause temporary leaf fusion, distortion and stunting. Crop injury may occur during early growth when crop is stressed due to herbicide residue carryover, highly saline or alkaline soils, unusually cold and wet weather or improperly placed fertilizers or soil insecticides.

Unusually dry, windy weather, which dries the upper soil layer, following application of Ethofumesate 42SC, may reduce effectiveness.

DO NOT OVERTREAT: The use of higher than recommended rates may cause crop injury and/or carry over problems.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets, table beets, garlic, onions, shallots or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with preemergence rates of Ethofumesate 42SC in the same season.

PRECAUTIONS

No more than a total of 0.75 gallon of Ethofumesate 42SC should be applied in a single growing season. See *Use Precautions* for additional information on proper use.

PREPLANT AND PREEMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of Ethofumesate 42SC Herbicide and tank mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply Ethofumesate 42SC Herbicide alone or in tank mixes to the soil using standard low pressure (20 to 50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the recommended rates of Ethofumesate 42SC or tank mixes in 10 to 60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying Ethofumesate 42SC or tank mixes in a band, check to make certain that the band width is accurate for the dosage rate being applied.

The spray tank and lines should be thoroughly cleaned and rinsed prior to using Ethofumesate 42SC.

POSTEMERGENCE APPLICATION

GENERAL INFORMATION

Ethofumesate 42SC Herbicide applied postemergence broadens and enhances the control of weeds.

Mixing the Spray: Add Ethofumesate 42SC to the water in the spray while agitating the spray solution thoroughly.

Spray Equipment: Apply the mixture using standard low pressure (20–60 psi) spray equipment. Ensure that the sprayer is thoroughly clean. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Uniformly apply the recommended rate in 10–40 gallons of water per acre on a broadcast basis or 5–10 gallons of water per acre in a band. Avoid overlaps, since crop injury may result. When applying in a band, check to make certain that the band width is accurate for the dosage rate being applied. Do not use strainer smaller than 50-mesh.

Moisture Following Application/Residual Weed Control: Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed 54 control; however, with preemergence rates, moisture after this period of time is advantageous for moving Ethofumesate 42SC into the top layer of soil where it can be absorbed by the roots of sprayed and germinating weeds to provide optimum control. One-half inch or more of sprinkler irrigation is required to activate Ethofumesate 42SC on most soil types.

Residual control of weeds is dependent upon soil moisture conditions; rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

ETHOFUMESATE 42SC MAY CAUSE CROP INJURY OR STAND LOSS IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

• Rapid climatic changes from cool, overcast days, to hot (80°F or over), bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.

- · Frost within seven days following treatment
- Windy or drought conditions
- Use of a preplant or preemergence herbicide or other chemicals
- Insect or disease injury
- Close cultivation

If stress conditions are present, delay application until crop has recovered.

DO NOT OVERTREAT: The use of higher-than-recommended rates may cause beet injury and/or carry over problems.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of application may reduce weed kill.

If Ethofumesate 42SC is applied on fields with heavy crop residue, such as from a previous corn crop, reduced weed control may occur.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

CARROT (For Use in Washington and Oregon Only)

GENERAL INFORMATION

Ethofumesate 42SC is a selective herbicide for use in carrot for the control of volunteer potatoes and the weed species listed below.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

WEED SPECIES CONTROLLED

Annual Broadleaf Weeds

Black nightshade	Solanum nigrum
Common chickweed	Stellaria media
Common lambsquarters	Chenopodium album
Common purslane	Portulaca oleracea
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Pennsylvania smartweed	Polygonum pennsylvanicum
Redroot pigweed	Amaranthus retroflexus
Russian thistle	
Wild buckwheat	Polygonum convolvulus

Annual Grass Weeds

Annual bluegrass	Poa annua
Barnyardgrass	
Canarygrass	
Green foxtail	Setaria viridis
Large crabgrass	Digitaria sanguinalis
Volunteer barley	Hordeum sp.
Volunteer wheat	<i>Triticum</i> sp.
Wild oats	Avena fatua
Yellow foxtail	Setaria glauca

Ethofumesate 42SC alone will also reduce competition from these HARD-TO-CONTROL weeds:

Annual Sowthistle	Sonchus oleraceus
Puncturevine	Tribulus terrestris
Shepherdspurse	Capsella bursa-pastoris
Purple nutsedge	Cyperus rotundus
Volunteer potato	Solanum tuberosum
Yellow nutsedge	Cyperus esculentus
Apply tank mixes only	in specified regions or States and in accordance with directions on label.

GENERAL APPLICATION

Carrot grown under rainfall: Apply Ethofumesate 42SC Herbicide alone or in a tank mix preemergence at time of planting or shortly after, but prior to weed germination. Ethofumesate 42SC or tank mix does not require mechanical soil incorporation provided that sufficient rainfall occurs shortly following application to activate the chemical. One-half inch of rainfall is usually adequate for activation. In areas where rainfall can be marginal for activation, it is recommended that Ethofumesate 42SC be applied before or at the time of planting and incorporated into the soil.

Carrot grown under furrow irrigation: Apply Ethofumesate 42SC Herbicide alone or in a tank mix to the soil surface preplant or at time of planting, but prior to weed germination. Where carrots are grown in beds, apply Ethofumesate 42SC or tank mix after bedding and incorporate.

Since Ethofumesate 42SC must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted.

Carrot grown under sprinkler irrigation: Apply Ethofumesate 42SC Herbicide alone or in tank mix preemergence at time of planting or shortly after, and irrigate prior to crop and weed germination. Repeat irrigation as necessary to maintain good moisture in upper soil layer.

Apply at least one-half inch of water during first irrigation. Do not mechanically incorporate Ethofumesate 42SC into the soil under sprinkler irrigation.

CULTURAL PRACTICES FOLLOWING APPLICATION: When properly applied, Ethofumesate 42SC Herbicide alone can provide up to 6 weeks control of susceptible weed species. When cultivating fields in which Ethofumesate 42SC has been banded, care should be exercised to minimize the movement of untreated soil into the treated band. Where a broadcast application has been made, do not cultivate deeper than two inches, as this reduces the effectiveness of Ethofumesate 42SC.

ETHOFUMESATE 42SC ALONE DOSAGE TABLE 13

Use Pattern	ETHOFUMESATE 42SC FLUID OUNCES/ACRE BROADCAST
Preemergence, soil surface	
Coarse Soils (sand, loamy sand, sandy loam)*	48
Medium and Fine Soils**	64
Postemergence	
2-Leaf to 4-Leaf Stage	64

Do not exceed 128 fluid ounces (1 gallon) of product per season.

PREPLANT AND PREEMERGENCE USE PRECAUTIONS

Ethofumesate 42SC Herbicide applied alone or in tank mixes according to label directions and under normal growing conditions may cause temporary leaf fusion, distortion and stunting. Crop injury may occur during early growth when crop is stressed due to herbicide residue carryover, highly saline or alkaline soils, unusually cold and wet weather or improperly placed fertilizers or soil insecticides.

Unusually dry, windy weather, which dries the upper soil layer, following application of Ethofumesate 42SC, may reduce effectiveness.

DO NOT OVERTREAT: The use of higher than recommended rates may cause crop injury and/or carry over problems.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets, table beets, carrots, garlic, onions, shallots, or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with preemergence rates of Ethofumesate 42SC in the same season.

PRECAUTIONS

No more than a total of 1 gallon of Ethofumesate 42SC should be applied in a single growing season. See *Use Precautions* for additional information on proper use.

PREPLANT AND PREEMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of Ethofumesate 42SC Herbicide and tank mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply Ethofumesate 42SC Herbicide alone or in tank mixes to the soil using standard low pressure (20 to 50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the recommended rates of Ethofumesate 42SC or tank mixes in 10 to 60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying Ethofumesate 42SC or tank mixes in a band, check to make certain that the band width is accurate for the dosage rate being applied.

The spray tank and lines should be thoroughly cleaned and rinsed prior to using Ethofumesate 42SC.

POSTEMERGENCE APPLICATION

GENERAL INFORMATION

Ethofumesate 42SC Herbicide applied postemergence broadens and enhances the control of weeds.

Mixing the Spray: Add Ethofumesate 42SC to the water in the spray while agitating the spray solution thoroughly.

Spray Equipment: Apply the mixture using standard low pressure (20–60 psi) spray equipment. Ensure that the sprayer is thoroughly clean. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Uniformly apply the recommended rate in 10–40 gallons of water per acre on a broadcast basis or 5–10 gallons of water per acre in a band. Avoid overlaps, since crop injury may result. When applying in a band, check to make certain that the band width is accurate for the dosage rate being applied. Do not use strainer smaller than 50-mesh.

Moisture Following Application/Residual Weed Control: Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed control; however, with preemergence rates, moisture after this period of time is advantageous for moving Ethofumesate 42SC into the top layer of soil where it can be absorbed by the roots of sprayed and germinating weeds to provide optimum control. One-half inch or more of sprinkler irrigation is required to activate Ethofumesate 42SC on most soil types.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of Ethofumesate 42SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

ETHOFUMESATE 42SC MAY CAUSE CROP INJURY OR STAND LOSS IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

• Rapid climatic changes from cool, overcast days, to hot (80°F or over), bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.

- Frost within seven days following treatment
- Windy or drought conditions
- · Use of a preplant or preemergence herbicide or other chemicals
- Insect or disease injury
- Close cultivation

If stress conditions are present, delay application until crop has recovered.

DO NOT OVERTREAT: The use of higher-than-recommended rates may cause beet injury and/or carry over problems.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of application may reduce weed kill.

If Ethofumesate 42SC is applied on fields with heavy crop residue, such as from a previous corn crop, reduced weed control may occur.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Source Dynamics LLC. All such risks shall be assumed by the user or buyer.

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Source Dynamics LLC 10039 E. Troon North Drive Scottsdale, Arizona 85262

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