11/20/2012

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#### US ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave, NW Washington, D C 20460 EPA Reg Number

Date of Issuance

89442-2

NOV 20 2012

NOTICE OF PESTICIDE

x Registration

\_\_ Reregistration

(under FIFRA as amended)

Term of Issuance

unconditional

Name of Pesticide Product

**Ethofumesate Select** 

Name and Address of Registrant

Prime Source, LLC 4609 E Boonville-New Harmony Road Evansville, IN 47725

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration. Division prior to use of the label in commerce all any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant the above named pesticide is hereby registered/reregistered under the Federal Insecticide Fungicide and Rodenticide Act Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

The basic and alternate formulations #1 and #2 (all dated July 31,2012) are acceptable and will be added to your file

This product is registered in accordance with FIFRA section 3(c)(5) provided that you

- 1 Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data
- 2 Make the following label revision(s)
  - a Revise "EPA Reg No" to "EPA Reg No 89442-2"
  - b Assure that the EPA establishment number and net contents are also added to the final printed label
- 3 Per 40 CFR 156 10(6), submit one copy of your final printed labeling before you release the product for shipment

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. If you have any questions regarding this notice, please contact Beth Benbow of my staff at <a href="mailto:benbow-bethany@epa.gov">benbow-bethany@epa.gov</a>

Signature of Approving Official

Kathryn V Montagué Project Manager 23

Herbicide Branch

Registration Division (7505P)

Date

NOV 2 h u

## **Ethofumesate Select**

# NOT FOR USE ON COMMERCIAL SOD FARMS IN ARIZONA SUSPENSION CONCENTRATE HERBICIDE

Selective Herbicide Intended For Use By Professional Applicators On Ornamental Turf Only

**ACTIVE INGREDIENT** 

% by Weight

Ethofumesate (2-ethoxy-2 3-dihydro-3 3-dimethyl-5-benzofuranyl methanesulfonate)

42 0%

OTHER INGREDIENTS

<u>58 0%</u>

TOTAL

100 0%

This product contains 4 0 lbs active ingredient per gallon

# KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCION

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

	FIRST AID
If	Call a poison control center or doctor immediately for treatment advice
swallowed	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
	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 by mouth-to-mouth if possible
	Call a poison control center or doctor for further treatment advice
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes
	Remove contact lenses if present after the first 5 minutes then continue
	rinsing eye
	Call a poison control center or doctor for treatment advice
lf 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
	HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week 6 30 am to 4 30.

pm Pacific Time or your poison control center at 1-800-222-1222

EPA Reg No

EPA Est No

Manufactured for Prime Source LLC 4609 E Boonville-New Harmony Road Evansville IN 47725

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# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or inhaled Avoid breathing vapor or spray mist

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

#### All Mixers, Loaders, Applicators and other handlers must wear

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (such as natural rubber)
- · Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables exist 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

Engineering Controls for Enclosed Cabs for Aerial Applicators Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(6)]

#### On-Site Closed Mixing and Loading System Engineering Controls for Liquid Formulations

Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4)] for Dermal protection and must

- wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders as well as a chemical-resistant apron
- wear protective eyewear if the system operates under pressure and
- be provided chemical-resistant footwear that is immediately available in an emergency such as a broken package spill or equipment breakdown

#### **USER SAFETY REQUIREMENTS**

#### **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 toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wasniwaters or rinsate.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling porrot graze livestock on treated turf. Do not feed treated grass clippings to livestock. Read entire Use Precautions and

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Restrictions Directions for Use and Condition of Sale and Limitation of Warranty and Liability before using this product

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 in your State responsible for pesticide regulation.

#### SHAKE CONTAINER WELL BEFORE USING

#### 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 for all crops except turf grown for sod. The REI for turf is 9 days. The REI for each crop is listed in the directions for use associated with each crop.

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

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

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses.

Do not enter or allow others to enter until sprays have dried

Professional pesticide applicators applying to residential turf including home lawns parks and recreation areas must inform their customers that all persons and pets must be kept off the treated turf until sprays have dried

#### PRODUCT INFORMATION

Ethofumesate Select is a herbicide intended for use on ornamental turf such as golf courses sod farms parks cemeteries and homeowner or commercial lawns and after overseeding specific grasses. It may be used on established perennial ryegrass. Kentucky bluegrass creeping bentgrass turf-type tall fescue. St Augustinegrass and dormant bermudagrass for the control and/or suppression of the annual grasses and broadleaf weeds listed in the tables below. Ethofumesate Select is intended for professional use only

Ethofumesate Select has both preemergent and early (two-leaf stage) postemergence activity and works best in programs emphasizing both approaches. Ethofumesate Select application is most effective. One nealthy vigorously growing turf

#### **SPRAY DRIFT MANAGEMENT**

This chemical can contaminate surface water through spray drift. A variety of factors including weather conditions (e.g. wind direction wind speed temperature relative humidity) and method of application (e.g.

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ground aerial) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product

Wind Speed Do not apply at wind speeds greater than 15 mph

<u>Temperature Inversions</u> Do not make applications into areas of temperature inversion of stable atmospheric conditions

#### WEED SPECIES CONTROLLED

#### **PREEMERGENCE**

#### **Annual Grasses**

Barnyardgrass (Echinochloa crus-galli)
Bluegrass annual (Poa annua)
Canarygrass (Phalaris canariensis)
Crabgrass large (Digitaria sanguinalis)
Crabgrass smooth (Digitaria ischaemum)
Foxtail green (Setaria viridis)
Foxtail yellow (Setaria glauca)

#### **Annual Broadleaves**

Burclover (Medicago sp )
Chickweed common (Stellaria media)
Purslane common (Portulaca oleracea)
Pigweed redroot (Amaranthus retroflexus)

Ethofumesate Select will also reduce competition from Nutsedge purple (Cyperus rotundus)
Nutsedge yellow (Cyperus esculentus)

#### **POSTEMERGENCE**

#### **Annual Grasses**

Bluegrass annual (Poa annua)

#### **Annual Broadleaves**

Chickweed common (Stellaria media)
Clover white (Trifolium repens)

### PREEMERGENCE/EARLY POSTEMERGENCE

#### Annual Grasses

Crabgrass large (Digitaria sanguinalis)
Crabgrass smooth (Digitaria ischaemum)

#### **USE PRECAUTIONS and RESTRICTIONS**

- Ethofumesate Select is not intended for use by homeowners and should be applied to homeowner lawns by licensed or certified applicators
- DO NOT OVER APPLY Ethofumesate Select Follow the instructions in this label or damage to non-target turf may result
- Do not apply more than 1.5 lbs. ai (48 oz. product/A or 1.1 oz. product/1 000 sq. ft.) per year ແລ້
- Do not harvest treated sod for 16 days following application
- Spray overlap can cause turf injury due to over application. Use of a spray colorant or indicator is recommended so that spray overlap can be avoided
- Do not apply with hand-held or flood jet nozzles because treatments may not be uniform.
- Do not apply this product through any type of irrigation system.

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- When using Ethofumesate Select overseed to prevent stand thinning as a result of loss of annual bluegrass. Use the rate of Ethofumesate Select listed for the overseeded species when overseeding. In mixed stands of established turfgrasses, use the rate listed for the *least* tolerant species.
- Delay application of Ethofumesate Select at least 8 weeks after application of a Plant Growth Regulator although an Ethofumesate Select program may be initiated on creeping bentgrass 3 weeks after a single application of PRIMO\* has been applied
- Do not apply Ethofumesate Select to putting greens
- Do not apply Ethofumesate Select to zoysiagrass and hard or fine fescue to avoid serious injury

#### Spray Equipment, Application, and Precautions

Use standard low-pressure (20 to 50 psi) spray equipment to apply Ethofumesate Select Calibrate spray equipment prior to use and frequently check the equipment during application. Use a spray indicator to aid in even application. Prior to and after applying Ethofumesate Select, thoroughly clean and rinse the spray tank and line.

#### Varietal Tolerance

Ethofumesate (the active ingredient in Ethofumesate Select) has been used on the following turfgrass cultivars However Ethofumesate Select can be used on other cultivars Prior to large-scale use of Ethofumesate Select on cultivars other than those listed below test a small area for tolerance

- CREEPING BENTGRASS- The following cultivars have shown good to excellent tolerance to
  Ethofumesate Select Carmen Cobra Highland Lopez Mariner National Penncross Providence
  Putter Southshore SR1020 and Viper
  Injury has been occasionally noted on Emerald Penneagle and Pennilinks cultivars
  Ethofumesate Select may cause serious injury to Cohansey Colonial south German varieties Egmont
  Bardot Tracenta Allure Astoria and SR7100
- **DORMANT BERMUDAGRASS-** Tifgreen Tidwarf and Common bermudagrass are more susceptible to Ethofumesate Select than hybrid bermudagrass
- **KENTUCKY BLUEGRASS** Adelphi American Aspen Asset Challanger Classic Emundi Huntsville Georgetown Glade Haga Julic Liberty Merit Midnight Monopoly Mystic Parade Rugby Sydsport Touchdown NOTE DO NOT APPLY to Explorer Limousine Northstar RAN I and Total Eclipse
- PERENNIAL RYEGRASS- Acclaim Blazer Dasker Derby Elka Fiesta Goalie Hunter Linn Loretta Manhattan II Palmer Pennfine Regal Yorktown
- ST AUGUSTINEGRASS- Raleigh
- TURF-TYPE FALL FESCUE- America Arid Mustang

#### Recommendations

- For fall control of annual bluegrass begin applications of Ethofumesate Select during the period of maximum weed germination and end as close to the first killing freeze as possible
- Spring applications should be made during the period of maximum weed germination. Consult your
  weed science specialist or university extension service for the recommended application timing in your
  area. Spring applications are most effective following fall applications.



# SEE CHART BELOW FOR USE RATES AND TIMINGS AND READ TEXT BELOW FOR SPECIFIC DIRECTIONS FOR EACH TYPE OF GRASS

**Application Rates and Timings** 

			Use I	Rate <sup>1</sup>			O company dispar	Application
Turf Type	Primary Targets	Applic- ation Timing	Oz / Acre	Oz/ 1,000 Sq Ft	# of Apps	Applica- tion Interval (Days	Overseeding Safety Interval <sup>3</sup> (Weeks After Treatment)	Safety Interval <sup>4</sup> (Weeks After Emergence)
Creeping Bentgrass	Annual Bluegrass	Fall Spring <sup>2</sup>	24 24	9/16 9/16	0-2 0-2	21-28 21-28	4	4
Kentucky Bluegrass	Annual Bluegrass	Fall	24	9/16	2	21-28	6	8
Ryegrass	Annual Bluegrass	Fall Spring	32-48	3/4-1 1	0-1 0-1	N/A N/A	1-2	1-2
St Augustinegrass (Est Turf)	Bermudagrass Suppression	Spring	24	9/16	2	21-28	N/A	N/A
Turf Type Tall Fescue	Annual Bluegrass	Fail	24-48	3/4-1 1	1-2	21-28	0	2-3
Overseeded (ryegrass) Bermudagrass Dormant Bermudagrass	Annual Bluegrass	Fall	24-48	9/16 – 1 1	1-2	21-28	N/A	N/A
Nondormant Bermudagrass	Annual Bluegrass	Fall	32-36	3/4-7/8	1	N/A	N/A	N/A

N/A= Not applicable

<sup>2</sup>Only make spring applications after previous fall treatments

#### INSTRUCTIONS FOR SPECIFIC GRASS TYPES

#### **COOL SEASON TURFGRASSES**

#### Creeping Bentgrass

Apply Ethofumesate Select to bentgrass as long as the turf is at a length typically found on fairways (or longer) When applying to bentgrass use the following guidelines

- Avoid using Ethofumesate Select in areas that are heavily shaded and/or poorly drained
- Creeping bentgrass tolerance to Ethofumesate Select may be improved by tank mixing Ethofumesate Select with nitrogen fertilizer (controlled release or soluble) at a rate of 0.1 to 0.25 lb N per 10 000 ft<sup>2</sup>. This may also improve creeping bentgrass conversion in the areas treated
- Control of annual bluegrass is best achieved by making two applications of Ethofumesate Select one in the fall followed by one in the spring

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Apply Ethofumesate Select in 20 to 60 gallons of water per acre or 1 to 3 gallons of water per 1000 sq ft

<sup>&</sup>lt;sup>3</sup>After the last treatment of Ethofumesate Select the interval provided applies to overseeding of the specific grass on same type of grass to which Ethofumesate Select was applied

<sup>&</sup>lt;sup>4</sup>Ethofumesate Select may be applied to specific grass following seed emergence after the recommended time interval <sup>5</sup>Do not exceed the maximum single application rate or yearly maximum application rate of 48 oz /acre (i.e. a split application of 24 oz /A once in the spring and once in the fall OR a single application of 48 oz /A in either the spring or the fall)

• Ethofumesate Select works best in the spring if applied after creeping bentgrass has resumed active growth and is fully green

When overseeding with creeping bentgrass use the following guidelines

- After applying Ethofumesate Select wait a minimum of 3-4 weeks before overseeding with bentgrass
- When an area has been renovated or overseeded with bentgrass do not apply Ethofumesate Select until 3-4 weeks after seedling emergence

#### **Kentucky Bluegrass**

- Delay application of Ethofumesate Select to bluegrass until at least 8 weeks after emergence
- Bluegrass overseeded with ryegrass may be treated with Ethofumesate Select 1-2 weeks after ryegrass emergence

When overseeding with Kentucky Bluegrass use the following guidelines

- Wait at least six weeks after the last Ethofumesate Select application before reseeding with Kentucky bluegrass
- Note that sod quality during the spring may be diminished following the fall applications of Ethofumesate Select Alternatives to fall application of Ethofumesate Select include seeding with dormant bluegrass in the late fall or to delay reseeding until the spring

#### **Perennial Ryegrass**

Control of annual bluegrass in perennial ryegrass is easiest when it is newly emerged and application of Ethofumesate Select is made during the primary period of annual bluegrass germination (and up to 30 days after annual bluegrass emergence) in the fall and/or spring. Consult your local Extension Service or university weed specialist for the date(s) that annual bluegrass germinates in your area.

- For best results apply Ethofumesate Select at 24 oz /A (0 5 oz /1 000 sq ft) once in the fall and once
  in the spring
- Application in the fall or spring will also reduce competition from selected broadleaf weeds and crabgrass

When overseeding with perennial ryegrass use the following guidelines

- Wait 1-2 weeks (or until the seedlings are approximately 1 tall) before applying Ethofumesate Select to the seeded area
- To the extent possible thatch should be removed from the area being seeded as it can diminish the effectiveness of the Ethofumesate Select treatment
- Do not apply mulch or straw to the seeded areas until after Ethofumesate Select has been applied

#### **Turf-Type Tall Fescue**

Make Ethofumesate Select applications to turf-type tall fescue in the fall. If overseeding with turf-type tall fescue application of Ethofumesate Select may be done at the same time as seeding

#### WARM SEASON TURFGRASSES

### St Augustinegrass (Established Turf)

Ethofumesate Select suppresses the development of actively growing Bermudagrass in established St Augustine sod Apply Ethofumesate Select to St Augustinegrass in the spring and early summer to suppress Bermudagrass and Bermudagrass seedhead formation and/or for control of annual bluegrass

Notes regarding applications to St Augustinegrass

- Do not treat St Augustinegrass in the first six months after germination
- Do not treat St. Augustinegrass that is under stress or injury to the turf may result.
- Temporary stunting and minor discoloration of St. Augustinegrass may occur after application. If the St. Augustinegrass shows signs of severe yellowing or stunting discontinue applications.

Use the following guidelines when applying Ethofumesate Select to St. Augustinegrass

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- Begin Ethofumesate Select applications when Bermudagrass first breaks dormancy in the spring Application timing is critical to achieve optimum results and will vary depending on location and temperature
- For best results make two applications of Ethofumesate Select at 24 oz /A (0 5 oz /1 000 sq ft ) with the second application being made 21-28 days after the first application
- To improve suppression each application of Ethofumesate Select may be tank-mixed with (Atrizine at up to 2 lb ai/A for first application and 0 75 lb-1 lb ai/A triazine for second or third application)

#### **Overseeded Dormant Bermudagrass**

Notes regarding applications to Bermudagrass

- Do not make more than two applications at 24 oz /A (0 5 oz /1 000 sq ft) OR one application at 48 oz /A (1 0 oz /1 000 sq ft) of Ethofumesate Select when treating nondormant bermudagrass Treatment to turf that is not fully dormant may cause early injury and/or delayed spring green-up
- Application of Ethofumesate Select to bermudagrass that is stressed due to shade poorly drained soils
  and high traffic may result in increased turf injury. Avoid use of Ethofumesate Selector use lower rates
  under these conditions

Use the following guidelines when applying Ethofumesate Select to Bermudagrass

- To control annual bluegrass make applications of Ethofumesate Select in late fall (ideally 1-2 weeks after emergence of overseeded perennial ryegrass) on overseeded bermudagrass
- When Ethofumesate Select is applied in late November or early December applications of 32-36 oz per acre have shown acceptable control of annual bluegrass with minimum injury to nondormant (or predormant) bermudagrass. If lower rated are used reduced annual bluegrass control should be expected. If higher rates are used increased injury to Bermudagrass may occur.
- Ethofumesate Select should not be applied to Bermudagrass in the 4 weeks prior to breaking winter dormancy. Applications made to Bermudagrass in the 4 weeks prior to breaking dormancy may temporarily delay the normal start of active growth.

When overseeding bermudagrass use the following guidelines

- Common bermudagrass in fairways or roughs may be more susceptible to herbicide injury than hybrid bermudagrass
- When making applications to nondormant bermudagrass Ethofumesate Select should be kept within
  areas that are overseeded so that the ryegrass will mask any early injury or late transition in the spring
  that my occur
- Using a higher than normal seeding rate may be desirable in order to minimize the appearance of thin turf

#### **Ethofumesate Select Mixtures with Fertilizers**

#### **Ethofumesate Select Impregnation on Dry Bulk Fertilizers**

Ethofumesate Select may be impregnated on many dry bulk fertilizers (See 1 below) and applied for the control of labeled grasses and broadleaf weeds. All Ethofumesate Select label and supplementary literature instructions and precautions regarding rates per acre soil type 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 Select fertilizer mixtures. A minimum of 200 pounds and a maximum of 700 pounds of approved fertilizer ingredients impregnated with the appropriate amount of Ethofumesate Select 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 Select 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 use a sufficient simple spray impregnation of the fertilizer with Ethofumesate Select provides a satisfactory dry mixture. If the absorptivity is not adequate, use of a highly absorptive powder is required to provide a first dry free-

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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 Select 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 Select actually contained in the fertilizer mixture applied to the soil represents the correct dosage rate.

Bulk fertilizers impregnated with Ethofumesate Select should be applied immediately NOT STORED

## 1 Approved dry fertilizer ingredients for use with Ethofumesate Select Ethofumesate Select Impregnation on Dry Bulk Fertilizers

	N	Р	K
Ammonium nitrate	34	0	0
Ammonium sulfate	21	0	0
Ammonium phosphate- sulfate	16	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 Select Physical Data	3
Density	1 15 g/cm <sup>3</sup>
Pounds/gallon	9 60
Flashpoint	Non-combustible Non-combustible

#### **Ethofumesate Select with Liquid Fertilizer**

The following procedure is suggested for evaluation of physical compatibility of Ethofumesate Select in mixtures with liquid fertilizers for spray tank applications

#### **Material Required**

- 1 Ethofumesate Select- components of tank sizes 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 Baloratories 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 directs of adjuvant \( \cdot \)
- 3 Add the Ethofumesate Select 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 mixture
  - a immediately after mixing

b after allowing mixtures to stand quietly for 30 minutes

c immediately after mixing again (invert the containers ten more times)

If 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 the adequate agitation is maintained in the spray tank. If a Ethofumesate Select plus 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 the test.

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

Rate Table for Ethofumesate Se	elect Mixtures with Liquid Fertilizers
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Gal of Liquid Fertilizer to be applied per acre	ml or tsp of Ethofumesate Select to be added to 1 pint of fertilizer			
gal	ml	tsp		
20	17 6	3 6		
30	12 0	2 4		
40	9 0	19		
50	7 1	1 5		
60	60	1 2		

<sup>\*</sup> Based on field rate of 3 0 lb ai/acre (3/4 gal/acre) in the fertilizer volumes indicated. Adjust amount of Ethofumesate Select added proportionately to correspond with intended field use rate listed on Ethofumesate Select label. Add the proportionate amount of tank mix component.

#### STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

**PESTICIDE STORAGE** Protect product from freezing temperatures

**PESTICIDE 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** Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying

(Nonrefillable container ≤ 5 gallons) Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill. Or by incineration or if allowed by state and local authorities by burning. If burned, stay out of smoke

(Nonrefillable > 5 gallons) Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning. If burned stay out of smoke

#### CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

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