

10822  
Pm 23

Reg. # 10182-67

Ms. Barbara J. Kaminski  
ICI Americas, Inc.  
Concord Pike and New Murphy Road  
Wilmington, DE 19897

JUL 22 1985

Dear Ms. Kaminski:

Subject: Additional Ornamentals: Supplemental Labeling  
Fusilade 4E Herbicide  
EPA Registration No. 10182-67  
Your Submission Dated July 15, 1985

The amendment referred to above, submitted in connection with registration under FIFRA is acceptable, provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Either delete the ornamentals that may be used for food, e.g., grapefruit, coffee, olive tree, etc., or add in the General Remarks and Precautions Section the following statement:

Do not apply to ornamentals that may be harvested for food within one year after application.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

Richard P. Mountfort *RM*  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

Enclosure

RD/PHB:JOB-89502:Mountfort:RD-16:Kendrick:898-1270:7/19/85:Del.7/30/85:lc

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

**Conversion Table**  
**FUSILADE 4E Rate**  
**to be Applied**

lb ai/A	pints/A	fl oz/A	A/gal
1/2	1	16	8

Always add a nonionic surfactant  
on ornamentals

EPA Registered Uses as of 1985.

 **ICI Americas Inc.**  
Agricultural Chemicals Division  
Wilmington, Delaware 19897

ACD 761-279R1 F/E

**S  
U  
P  
P  
L  
E  
M  
E  
N  
T  
A  
L  
  
L  
A  
B  
E  
L**

**Keep Out of Reach  
of Children**  
**WARNING**



Supplemental Label  
for Ornamentals

Under the F  
Fungicide, or  
as amended,  
registered und  
EPA Reg. No.

**DIRECTIONS FOR USE**

## **SUPPLEMENTAL LABELING**

**FUSILADE™ 4E HERBICIDE**  
EPA Reg. No. 10182-67

Not for use or storage in or around the home. All applicable directions, restrictions, and precautions on the EPA-registered label are to be followed. This labeling must be in the possession of the user at the time of herbicide application.

## **DIRECTIONS FOR USE**

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

### **ORNAMENTALS**

FUSILADE 4E herbicide can be used to control grass weeds in many newly transplanted and established nongrassy ornamentals, trees, shrubs and ground covers. See the following Tables I and II for specific recommended uses.

Application of FUSILADE 4E may be made over-the-top to ornamentals listed in Table I. Plants listed in Tables II through IV should have a directed spray applied to prevent contact of spray with foliage. If the growth habit of the plant or other factors do not allow a directed spray, an over-the-top application can be made to plants in Table II-IV. However, there is the possibility of damage in the range listed for each table when applied at label rates.

### **GENERAL INFORMATION**

FUSILADE 4E is a selective postemergence herbicide for control of annual and perennial grass

weeds. FUSILADE 4E does not control broadleaf weeds or sedges (nutgrass)

**Control Symptoms** - FUSILADE 4E is a systemic herbicide which moves from the treated grass foliage into the shoots, roots, rhizomes, stolons, and growing points (meristematic regions) of treated grass weeds. Excellent control of a wide range of annual and perennial grass weeds will be obtained with FUSILADE 4E when applied as recommended on this label.

Growth of treated grass weeds stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and eventual death to the treated grass plant. Symptoms are generally observed within one to three weeks, depending on grass weed species and environmental conditions.

#### APPLICATION DIRECTIONS

**Timing** - Apply to actively growing grass weeds before they exceed the recommended growth stages shown on this label.

Do not apply FUSILADE 4E if rainfall is expected within 1 hour.

**Spray Additives (Cleared for use on growing crops)**

#### ALWAYS ADD THE FOLLOWING:

- **Nonionic Surfactant** - Add nonionic surfactant containing at least 75% surface active agent, at 0.25% of the finished spray volume.

**Ground Application** - Use 5-40 gallons of spray volume per acre and 40-60 psi pressure. A sufficient spray volume and pressure should be used to provide complete coverage of the treated grass weed species.

2

Use higher volumes and increase the pressure to 60 psi if the grass foliage is dense to ensure complete coverage.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS WHICH DELIVER COARSE SPRAYS.

DO NOT APPLY FUSILADE 4E WITH RECIRCULATING SPRAYERS, ROPEWICK APPLICATORS, CONTROLLED DROPLET APPLICATORS (CDA) OR ANY SIMILAR DEVICES.

**Band Applications** - Band application equipment should be adjusted to provide maximum coverage of grasses in the planted row. Thorough coverage can be obtained with a nozzle directed to each side of the row toward the grass weeds in the planted row. Application with a single nozzle over the top of the row is not recommended.

The use of band applications on perennial grasses may result in reinfestation of the treated band from the untreated middle and is not recommended.

**Aerial Application** - Use a minimum of 5 gallons per acre. If the grass foliage is dense, increase the spray volume to 10 gallons per acre to improve spray coverage.

#### Soil Residual Activity

Under conditions where rainfall is adequate following FUSILADE 4E application, soil residual activity may be observed. This may result in control or suppression of new flushes of annual grasses. The amount of residual control is dependent on the FUSILADE 4E rate used, grass density, and the soil type, with more activity being seen on coarse-textured soils low in organic matter.

3

### Spot Treatments

Mix FUSILADE 4E and a nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary.

### SPOT SPRAY RECOMMENDATIONS

To Make This Spray Volume	Add These Amounts	
	FUSILADE 4E	Nonionic Surfactant
1 gallon	1/2 fl. oz. (1 tbsp.)	1/2 fl. oz.
10 gallons	5 fl. oz.	3 fl. oz. ✓
25 gallons	3/4 pint	1/2 pint
50 gallons	1 1/2 pints	1 pint

### ANNUAL AND PERENNIAL GRASS CONTROL RECOMMENDATIONS FOR ORNAMENTALS

- Use 1 pint of FUSILADE 4E per acre and 0.25% of a nonionic surfactant. **Use only nonionic surfactant on ornamentals.**
- Spray to obtain thorough coverage of grass foliage, but not to runoff. Repeat treatments may be necessary to provide full-season control.
- Use standard pesticide hollow cone or flat fan nozzles.
- Do not apply FUSILADE 4E to grasses which are stressed due to moisture, temperature, herbicide or mechanical injury.

- Do not apply FUSILADE 4E to grasses which have tillered, formed seed heads, or exceeded growth stages for treatment.
- Do not use a crop oil concentrate with FUSILADE 4E on ornamentals.

Apply FUSILADE 4E to actively growing grasses before they exceed the recommended growth stages shown below:

### ANNUALS (Apply 1.0 pt of FUSILADE 4E per acre.)

#### Grass Species

Growth Stage: 2-8" tall, before tillering and/or heading

- Barnyardgrass (Echinochloa crusgalli)
- Broadleaf signalgrass (Brachiaria platyphylla)
- Fall panicum (Panicum dichotomiflorum)
- Field sandbur (Cenchrus pauciflorus)
- Foxtail, green (Setaria viridis)
- Foxtail, giant (Setaria faberi) ✓
- Foxtail, yellow (Setaria lutescens)
- Goosegrass (Eleusine indica)
- Guineagrass, seedling (Panicum maximum)
- Itchgrass (Rottboellia exaltata)
- Johnsongrass, seedling (Sorghum halepense)
- Junglerice (Echinochloa colonum)
- Large crabgrass (Digitaria sanguinalis)
- Prairie cupgrass (Eriochloa contracta)

**ANNUALS (cont.)**

**Growth Stage:** 2-8" tall, before  
tillering and/or heading

Red rice (*Oryza sativa*)  
Shattercane/Wildcane/Volunteer milo  
(*Sorghum bicolor*)  
Smooth crabgrass (*Digitaria ischaemum*)  
Southern sandbur (*Cenchrus echinatus*)  
Southwestern cupgrass (*Eriochloa gracilis*)  
Texas panicum (*Panicum texanum*)  
Volunteer barley (*Hordeum vulgare*)  
Volunteer oats (*Avena fatua*)  
Volunteer rye (*Secale cereale*)  
Volunteer corn (*Zea mays*)  
Volunteer wheat (*Triticum aestivum*)  
Wild oats (*Avena fatua*)  
Wild proso millet (*Panicum miliaceum*)  
Witchgrass (*Panicum capillare*)  
Woolly cupgrass (*Eriochloa villosa*)

**PERENNIALS (Apply 1.0 pint of FUSILADE 4E per acre)**

**Grass Species**

Bermudagrass (*Cynodon dactylon*)<sup>1</sup>  
Guineagrass (*Panicum maximum*)<sup>2</sup>  
Johnsongrass (*Sorghum halepense*)<sup>3</sup>  
Quackgrass (*Agropyron repens*)<sup>4</sup>  
Wirestem muhly (*Muhlenbergia frondosa*)<sup>5</sup>

**Growth Stage**

<sup>1</sup>3" tall or with 4-8" runners  
<sup>2</sup>6-12" tall and before seedhead initiation  
<sup>3</sup>12-18" tall and before boot stage  
<sup>4</sup>3-5 leaves, not more than 10" tall  
<sup>5</sup>4-12" tall and before seedhead initiation

78  
**TABLE I**

**OVER-THE-TOP APPLICATIONS**  
 may be applied to the following ornamentals:  
 Use Only Nonionic Surfactant on Ornamentals

Scientific Name	Common Name/ Variety
<i>Abelia grandiflora</i>	Glossy abelia
<i>Abies concolor</i>	Concolor fir
<i>Abies procera</i>	Noble fir
<i>Acacia redolens</i>	Acacia ongerops
<i>Acacia salicina</i>	Willow-leaved acacia
<i>Acacia saligna</i>	Willow acacia
<i>Acacia schaffnerii</i>	Jim wheel acacia
<i>Acacia stenophylla</i>	Shoe-string acacia
<i>Acer palmatum</i>	Maple/Japanese
<i>Acer platanoides</i>	Norway maple
<i>Acer saccharinum</i>	Silver maple
<i>Achillea filipendulina</i>	Coronation gold, fernleaf yarrow
<i>Achillea millefolium</i>	Common yarrow
<i>Arecastrum romanzoffianum</i>	Queen palm
<i>Agapanthus africanus</i>	Peter pan lily of the Nile
<i>Agave americana</i>	Century plant
<i>Ageratum</i> sp.	
<i>Aglaonema commutatum</i>	Silver Queen evergreen, Fransher evergreen, Traubii Ribbon evergreen
<i>Aglaonema crispum</i>	Painted evergreen
<i>Alicea rosea</i>	Hollyhock
<i>Allium schoenoprasum</i>	Chives
<i>Aloe barbadensis</i>	Barbados aloe
<i>Aloe vera</i>	

**Scientific Name**                      **Common Name/  
Variety**

<i>Aloe zanzibarica</i>	
<i>Alyssum</i> sp.	
<i>Araucaria heterophylla</i>	Norfolk Island pine
<i>Arctostaphylos uva-ursi</i>	red bearberry
<i>Arctotheca calendula</i>	Caro weed
<i>Arenaria verna</i>	sandwort
<i>Asparagus densiflorus</i>	Sprengerl, Myres asparagus, Sprenger asparagus
<i>Azalea x arandii</i>	False spirea
<i>Atriplex</i> sp.	Saltbrush
<i>Aucuba japonica</i>	Aucuba
<i>Aucuba japonica variegata</i>	
<i>Berberis mentorensis</i>	Mentor barberry
<i>Berberis thunbergii</i>	Crimson pygmy
<i>Bougainvillea</i> sp.	Raspberry ice
<i>Buxus microphylla koreana</i>	Korean boxwood
<i>Buxus microphylla</i> var. japonica	Japanese boxwood
<i>Buxus sempervirens</i>	Welleri, Common boxwood
<i>Caesalpinia cactaceo</i>	
<i>Caesalpinia gilliesii</i>	Bird of paradise
<i>Calendula</i> sp.	Marigold
<i>Callistemon lanceolatus</i>	Bottle-brush
<i>Calluna vulgaris</i>	Scotch heather
<i>Camellia japonica</i>	Camellia
<i>Camellia sasanqua</i>	Sasanqua camellia
<i>Campanula carpatica</i>	bellflower
<i>Carissa grandiflora</i>	Natal plum
<i>Carissa luttiae</i>	

TABLE I (cont.)

Scientific Name	Common Name/ Variety	Scientific Name	Common Name/ Variety
<i>Carnegiea gigantea</i>	Saguaro cactus	<i>Cordyline terminalis</i>	Ti
<i>Cassia artemisioides</i>	Feathery cassia	<i>Coreopsis verticillata</i>	Threadleaf coreopsis
<i>Cassia didymobotrys</i>	African cassia	<i>Cornus florida</i>	Flowering dogwood
<i>Cassia sturdii</i>		<i>Cornus mas</i>	Cornelian cherry dogwood
<i>Centaurea cineraria</i>	Dusty miller	<i>Cornus sericea</i>	Red twig dogwood, Flaviramea
<i>Cerastium tomentosum</i>	Snow in summer		
<i>Ceratonia siliqua</i>	Carob tree	<i>Cotoneaster apiculata</i>	
<i>Cercis canadensis</i>	Red bud	<i>Cotoneaster dammeri</i>	Coral beauty, Royal beauty
<i>Chamaecyparis obtusa</i>	Cripps hinoki falsecypress		
<i>Chamaecyparis lawsoniana</i>	Allum lawson cypress	<i>Cotoneaster divaricatus</i>	Spreading cotoneaster
<i>Chamaecyparis pisifera</i>	Plumosa	<i>Cotoneaster microphyllus</i>	
<i>Chamaerops excelsa</i>	Windmill palm	<i>Cotoneaster repens</i>	Cotoneaster
<i>Chamaerops humilis</i>	Mediterranean fan palm	<i>Cotoneaster salicifolius</i>	
<i>Chrysalidocarpus lutescens</i> (small)	Golden fruited palm	franch	Willowleaf cotoneaster
<i>Chrysanthemum x</i> <i>superbum</i>	Shasta daisy	<i>Crossandra nilotica</i>	Crossandra
<i>Cissus rhombifolia</i>	Ellen Danica, grape ivy	<i>Cupressus sempervirens</i>	Italian cypress
<i>Cistus hybridus</i>	Rock rose	<i>Cycus revoluta</i>	Sago palm
<i>Citrus aurantium</i>	Sour orange	<i>Deutzia gracilis</i>	slender deutzia
<i>Citrus paradisi</i>	Grapefruit	<i>Dianthus barbatus</i>	Sweet William
<i>Clerodendrum speciosum</i>	Capote flower	<i>Dieffenbachia amoena</i>	Giant dumbcane
<i>Cleyera spp.</i>	Cleyera	<i>Diervilla lonicera</i>	Bush honeysuckle
<i>Clivia miniata</i>	Kaffir lily	<i>Dodonea viscosa</i>	
<i>Cocos plumosa</i>	Queen palm	purpurea	Purple hopsed bush
<i>Codiaeum variegatum</i>	Croton	<i>Echinocactus sp.</i>	Hedgehog cactus
<i>Coffea arabica</i>	Coffee	<i>Elaeagnus angustifolia</i>	Russian olive
<i>Coleus x hybridus</i>	Coleus	<i>Encelia farinosa</i>	Bottle brush
<i>Convolvulus oneorum</i>	Bush morning glory	<i>Erythrina fusca</i>	Fastigiata, Swamp immortella
<i>Coprosma baueri</i>	Mirror plant		
<i>Coprosma repens</i>	Variagated mirror plant	<i>Escallonia fradesii</i>	
		<i>Escallonia rubra</i>	
		<i>Eucalyptus microtheca</i>	Gum-barked coolibah



TABLE I (cont.)

Scientific Name	Common Name/ Variety	Scientific Name	Common Name/ Variety
<i>Eucalyptus polyanthemos</i>	Red box gum	<i>Gelemium sempervirens</i>	Caroline jessamine
<i>Eucalyptus rostrata</i>	Red gum	<i>Geranium pratense</i>	Cranesbill
<i>Eucalyptus spathulata</i>	Narrow-leaf gimlet	<i>Gleditsia x hortulanus</i>	Debbie, Jennie, Mahogany, Stargazer
<i>Eucalyptus rudis</i>	Desert gum	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Honey locust/shade master
<i>Eugenia myrtifolia</i>	Brush cherry	<i>Graptophyllum pictum</i>	Caricature plant
<i>Euonymus alata</i>	Siebold	<i>Grevillea robusta</i>	Silk oak
<i>Euonymus fortunei</i>		<i>Grevillea rosmarinifolia</i>	Spider flower
<i>Euonymus japonica</i>	Silver King	<i>Hedera canariensis</i>	Algerian ivy
<i>Euonymus kiautschovicus</i>	Spreading Euonymus	<i>Hedera helix</i>	English ivy
<i>Euphorbia lactea</i>	Candelabra plant	<i>Hedera helix hahnii</i>	Hahn's ivy
<i>Euryops pectinatus</i>		<i>Hemerocallis hybrids</i>	Daylily
<i>Fatsihedera lizei</i>	Fatsihedera	<i>Hemigraphis</i> sp.	Waffle plant/Metallic plant
<i>Ferocactus</i> sp.	Barrel cactus	<i>Hesperaloe parviflora</i>	
<i>Ficus benjamina</i>	Exotica weeping fig	<i>Hibiscus rosa-sinensis</i>	Chinese hibiscus
<i>Ficus elastica decora</i>	Rubber tree	<i>Hibiscus syriacus</i>	Althea
<i>Ficus microcarpa nitida</i>	Indian laurel	<i>Hosta lancifolia</i>	Variiegated hosta
<i>Ficus nitida</i>	Indian laurel	<i>Hydrangea paniculata</i>	Panicle hydrangea
<i>Ficus repens</i>	Creeping fig	<i>Hydrangea quercifolia</i>	Oakleaf hydrangea
<i>Forsythia intermedia</i>		<i>Iberis sempervirens</i>	Candytuff
<i>Forsythia</i> sp.		<i>Ilex cornuta</i>	Dwarf buford holly
<i>Forsythia suspensa</i>	Weeping forsythia	<i>Ilex crenata</i>	Japanese holly
<i>Forsythia x intermedia</i>		<i>Ilex glabra</i>	Compact inkberry
<i>Fouquieria splendens</i>	Ocotillo	<i>Ilex opaca</i>	American holly
<i>Fragaria chiloensis</i>	Ornamental strawberry	<i>Ilex vomitoria</i>	Dwarf yaupon/Tall yaupon
<i>Fraxinus velutina</i>	Arizona ash	<i>Ilex x Meserveae</i>	Meserve holly
<i>Gardenia jasminoides</i>	Gardenia, dwarf	<i>Ilex x attenuata</i>	Foster holly
<i>Gardenia taitensis</i>	Tahitian gardenia	<i>Iris</i> sp.	
<i>Gazania splendens</i>	Gazania gold rush	<i>Isotoma</i> sp.	Blue star creeper
<i>Gazania uniflora leucoleana</i>		<i>Ixora cuneata</i>	Ixora
<i>Geijera parviflora</i>	Australia willow		

TABLE I (cont.)

Scientific Name	Common Name/ Variety	Scientific Name	Common Name/ Variety
<i>Jacaranda acutifolia</i>	Jacaranda	<i>Leptospermum laevigatum</i>	
<i>Jacobinia ghiesbreghtiana</i>		<i>Leucophyllum frutescens</i>	Texas sage
<i>Juniperus horizontalis</i>	Admiral	<i>Liatris spicata</i>	Gay feather
<i>Juniperus scopulorum</i>	Cologreen	<i>Ligustrum amurense</i>	Amur River
<i>Juniperus chinensis</i>	Hetzl, San Jose, Torulosa, Gold tip, Nicka compact juniper, Keteleeri, Hollywood, Blue Point, Blue vase juniper, Parsoni, Gold coast juniper, Sargent juniper	<i>Ligustrum lucidum</i>	Wax ligustrum
		<i>Ligustrum ovalifolium</i>	Privet/california
		<i>Ligustrum texanum</i>	Texas privet
		<i>Ligustrum x Vicari</i>	Vicari
		<i>Liquidambar styraciflua</i>	American sweetgum
		<i>Liriope spicata</i>	Liriope
		<i>Liriope muscari</i>	Green Liriope/Variiegated Liriope
		<i>Livistona chinensis</i>	Chinese fan palm
		<i>Lonicera x morrowii</i>	Morrow honeysuckle
		<i>Lonicera xylocasteum</i>	Emerald mound
		<i>Lysiloma thornberi</i>	Desert fern tree
<i>Juniperus conferta</i>	Shore juniper	<i>Lysimachia nummularia</i>	Moneywort/Wandering Sally
<i>Juniperus horizontalis</i>	Plumosa	<i>Magnolia sp.</i>	Oregon Grapeholly
<i>Juniperus procumbens</i>		<i>Magnolia stellata</i>	Star magnolia
<i>Juniperus sabina</i>	Pepin, Skandia, Buffalo	<i>Mahonia aquifolium</i>	Mahonia
		<i>Malus floribunda</i>	Showy crabapple
		<i>Mesembryanthemum drosanthemum hapidum</i>	Rose ice plant
<i>Juniperus scopulorum</i>	Witchita blue	<i>Mesembryanthemum lampranthus productus</i>	Purple trailing ice plant
<i>Juniperus virginiana</i>	Red cedar	<i>Mesembryanthemum lampranthus spectabilis</i>	Red spike ice plant
<i>Justicia spicigera</i>	Firecracker, Mexican indigo	<i>Metrosideros excelsus</i>	New Zealand christmas tree
		<i>Musa aurelii</i>	Ethiopia banana
<i>Kochia scoparia f. trychophylla</i>	Compact burningbush	<i>Myoponium parvifolium</i>	Prostrate myoponium
<i>Lagerstroemia indica</i>	Crepe myrtle	<i>Myrica cerifera</i>	Wax myrtle
<i>Lantana camara</i>	Bush lantana		
<i>Lantana selowiana</i>	Purple lantana (trailing)		

TABLE I (cont.)

Scientific Name	Common Name/ Variety	Scientific Name	Common Name/ Variety
<i>Nephrolepis exaltata</i>	Sword fern	<i>Picea glauca</i>	Dwarf Alberta, Black Hills, Densata
<i>Nerium oleander</i>	Pink, variegated, petite oleander	<i>Picea omorika</i>	Serbian spruce
<i>Odocoanthus</i> sp.	Olive tree	<i>Picea pungens</i>	Blue Spruce
<i>Olea europaea</i>	Ironwood	<i>Pieris japonica</i>	Lily-of-the-valley bush
<i>Olneya tesota</i>	Cholla cactus	<i>Pilea nummularifolia</i>	Creeping Charlie
<i>Opuntia Cholla</i>	Cholla cactus	<i>Pinus canariensis</i>	Canary Island pine
<i>Osmanthus fragrans</i>	Osmanthus, tea olive	<i>Pinus mugo</i>	Dwarf Swiss mountain pine
<i>Osteospermum fruticosum</i> alba	White african daisy	<i>Pinus nigra</i>	Austrian pine/Black pine
<i>Pachysandra terminalis</i>	Japanese pachysandra	<i>Pinus ponderosa</i>	Western/Ponderosa pine
<i>Parkensonia aculeata</i>	Green palo verde	<i>Pinus resinosa</i>	Red pine
<i>Passiflora pfordii</i>	Passion vine	<i>Pinus strobiformis</i>	Mexican border pine
<i>Pelargonium domesticum</i>	Geranium	<i>Pinus strobus</i>	Eastern white pine
<i>Pelargonium peltatum</i>	Ivy geranium	<i>Pinus sylvestris</i>	Scotch pine
<i>Pennisetum setaceum</i>	Red fountain grass	<i>Pittosporum Tobira</i>	Wheeler dwarf, variegated
<i>Peperomia scandens</i>	Radiator plant	<i>Pittosporum phillyraeoides</i>	Desert willow
<i>Petunia</i> sp.		<i>Plumbago capensis</i>	Cane plumbago
<i>Philadelphus coronarius</i>	Aurea	<i>Podocarpus gracilior</i>	African fern pine
<i>Philodendron oxycardium</i>	"Micans" velvetleaf philodendron	<i>Podocarpus macrophylla</i>	Yew pine
<i>Philodendron selloum</i>		<i>Polygonum capitatum</i>	Pink clover
<i>Phoenix canariensis</i>	Canary Island date palm	<i>Polyscias fruticosa</i>	Parsley panax
<i>Phoenix roebelenii</i>	Pygmy date palm	<i>Polystichum capense</i>	
<i>Photinia x fraseri</i>	Photinia	<i>Potentilla fructosa</i>	Gold drop, Primrose beauty
<i>Phyllostachys aurea</i>	Golden bamboo	<i>Prosopis chilensis</i>	Chilean mesquite
<i>Physocarpus fruticosus</i>	Gold drop, Jackmanni, Abbotswood	<i>Prunus triloba</i>	Flowering almond
<i>Physocarpus opulifolius</i>	Dwarf Ninebark, Nanus	<i>Prunus caroliniana omissa</i>	Carolina cherry
<i>Picea abies</i>	Norway spruce	<i>Pseuderanthemum atropurpureum</i>	Purple false eranthemum
		<i>Pseudotsuga mensiesii</i>	Douglas fir
		<i>Pyracantha Koidzumii</i>	Lodense pyracantha
		<i>Pyracantha angustifolia</i>	Variegated firethorn

TABLE I (cont.)

Scientific Name	Common Name/ Variety	Scientific Name	Common Name/ Variety
<i>Pyracantha coccinea</i>	Scarlet firethorn, Lalandei	<i>Rhododendron</i> sp.	Kaempo,
<i>Pyracantha graberi</i>			Royalty,
<i>Pyracantha koidzumii</i> x <i>coccinea</i>	Mojave firethorn		Helm red,
<i>Pyrus calleryana</i>	Bradford pear		Red wing,
<i>Quercus virginiana</i>	Oak, live		Gumpo white,
<i>Raphiolepis indica</i>	Pink lady		Simon spray,
<i>Raphiolepis umbellata</i>	Yedda/Indian hawthorn		Road runner,
<i>Raphiolepis indica</i>	Pink lady		Tradition,
<i>Rhamnus frangula</i>	Tailhedge buckthorn		Gloria,
<i>Rhododendron</i> "Gable hybrid"	Elizabeth Gable, Purple splendor, Rose greely		Gumpo pink,
<i>Rhododendron catawbiense</i>	Lees dark purple, Roseum elegans, Chionoides rhododendron, White catawba, Roseum elegans, Purple elegans, Roseum superbum, English roseum		Greeting,
<i>Rhododendron formosa</i>			Pink pearl,
<i>Rhododendron obtusum</i>	Amoenum, Coral bells		Pericat,
<i>Rhododendron</i> sp.	Blasuw's pink, Rutherfordiana Constance, White cascade, Prize, Kluis sensation, Sweetheart,		Tabor,
			Mother's Day,
			Snow,
			Massaolt,
			Red ruffle,
			Delaware Valley white,
			Purple Gem,
			H. H. Hume,
			Stewartsonian,
			Hino red,
			Rosebud,
			Fashion,
			Herbert,
			Gibraltar,
			Girard's rose,
			Boule de neige,
			President Lincoln

12 833

TABLE I (cont.)

Scientific Name	Common Name/ Variety
<i>Rhododendron yedoense</i>	Korean azalea/ Poukhanense
<i>Rhuella californica</i>	
<i>Rhus lancea</i>	African sumat standard
<i>Rosa Banksiae</i>	Banksia
<i>Rosa hybrida</i>	Hybrid tea rose
<i>Rosa sp.</i>	Rose
<i>Rosmarinus officinalis prostratus</i>	Rosemary dwarf
<i>Salix alba</i>	Weeping willow
<i>Salix matsudana</i>	Tortuosa corkscraw willow
<i>Salvia greggii</i>	
<i>Sansevieria sp.</i>	Moon Glow
<i>Sansevieria trifasciata</i>	Hahai/Mother-in-law's tongue
<i>Santolina chamaecyparissus</i>	Lavender cotton
<i>Schefflera arboricola</i>	Manila Ripple
<i>Schinus molle</i>	California pepper
<i>Schinus terebinthifolius</i>	Brazilian pepper
<i>Schinus molle</i> var. <i>brevifolium</i>	Green stone crop
<i>Sedum guatemalense</i>	Brown beam
<i>Sedum spectabile</i>	Sedum
<i>Sedum x rubrotinctum</i>	
<i>Sempervivum tectorum</i>	Hen and chickens
<i>Simmondsia chinensis</i>	Jojoba
<i>Spiraea nipponica</i>	Snowmound spirea
<i>Spiraea x billardii</i>	Billard spirea
<i>Spiraea x bumalda</i>	Froebell, Crispe spirea, Gold flame,

Scientific Name	Common Name/ Variety
<i>Spiraea x bumalda</i>	Anthony Waterer
<i>Statice sinuata</i>	Annual statice
<i>Stenocarpus sinuatus</i>	Firewheel tree
<i>Strelitzia nicolai</i>	Giant bird of paradise
<i>Strelitzia reginae</i>	Bird of paradise
<i>Syringa meyeri</i>	Palibin
<i>Syringa patula</i>	Korean lilac
<i>Syringa villosa</i>	James McFarlane lilac
<i>Syzygium paniculatum</i>	Australian bush cherry
<i>Tagetes sp.</i>	Marigold
<i>Taxus cuspidata</i>	Japanese yew
<i>Taxus x media</i>	Thayeri yew, Hicks yew, Dense yew
<i>Tecoma stans angustata</i>	Yellow bells
<i>Tecomaria capensis</i>	Cape honeysuckle
<i>Ternstroemia gymnanthera</i>	Cleyera
<i>Thevetia peruviana</i>	Yellow oleander tree
<i>Thuja occidentalis</i>	White cedar, Emerald green, Woodwardii, Techny, Pyramidalis, Globosa, Techny american arborvitae
<i>Thuja orientalis</i>	Bekman's
<i>Trachelospermum asiaticum</i>	
<i>Trachelospermum asiaticum</i>	Asiatic jasmine
<i>Trachelospermum jasminoides</i>	Star jasmine
<i>Trifolium fragiferum</i>	O'Connors legume

138000

TABLE I (cont.)

Scientific Name	
<i>Taxus canadensis</i>	Eastern hemlock
<i>Viburnum lentulum</i>	Arrowwood viburnum
<i>Viburnum japonicum</i>	Viburnum/japanese snowball
<i>Viburnum opulus</i>	Nanum
<i>Viburnum odoratissimum</i>	Viburnum
<i>Viburnum plicatum</i>	Doublefile viburnum/tomentosum
<i>Viburnum suspensum</i>	Sendakwa viburnum
<i>Viburnum trilobum</i>	Compact cranberrybush viburnum
<i>Viburnum x juddi</i>	Judd
<i>Viburnum x bursum x myrtidophytoides</i>	Viburnum/willowwood
<i>Vicia sp.</i>	Crown Vetch
<i>Vinca major</i>	Periwinkle
<i>Vinca minor</i>	Myrtle, Dwarf periwinkle
<i>Washingtonia robusta</i>	Mexican fan palm
<i>Weigelia florida</i>	Newport red, Pink weigelia
<i>Xylocopa serotica</i>	
<i>Yucca filamentosa</i>	Yucca
<i>Yucca gloriosa</i>	Spanish dagger
<i>Yucca pendula</i>	Weeping dagger
<i>Zinnia sp.</i>	

TABLE II

**DIRECTED APPLICATIONS**

to avoid ornamental foliage are recommended for the list below:

- When possible and plant growth habit allows, applications should be made as a directed spray to the plants listed below.
- Limited testing of the same plants has shown phytotoxicity of up to 20% when FUSILADE 4E is applied over-the-top at label rates.

Scientific Name	Common Name/ Variety
<i>Abies fraseri</i>	Fraser Fir
<i>Acer rubrum</i>	Maple/red
<i>Ajuga reptans</i>	bugleweed
<i>Ajuga variegata</i>	Variegated ajuga
<i>Aquilegia hybrida</i>	Columbine
<i>Arbutus unedo</i>	Strawberry tree
<i>Begonia hvedeliana</i>	Cats claw, Yellow trumpet
<i>Callistemon viminalis</i>	Weeping bottle-brush
<i>Ceanothus griseus</i>	
<i>Cupressocyparis leylandi</i>	Leyland cypress
<i>Dracaena fragans</i>	Mossangeana, dracaena
<i>Dracaena marginata</i>	Tricolor dracaena
<i>Eucalyptus citriodora</i>	Lemon-scented gum
<i>Ficus sellowiana</i>	Pineapple guava
<i>Gamolepis chrysanthemoides</i>	
<i>Gazania ringens</i>	
<i>Glaucium x hortulanus</i>	Gallery
<i>Grewia caffra</i>	Lavender star plant
<i>Hemaria glabra</i>	Green carpet
<i>Juniperus chinensis</i>	Pfitzeriana,

TABLE II (cont.)

Scientific Name	Common Name/ Variety	Scientific Name	Common Name/ Variety
Juniperus chinensis	Nana, Spearmint, Old Gold, Frostrata, Robusta, Maney	Philodendron sp.	
Juniperus conferta	Blue Pacific	Plumeria acuminata	Temple tree
Juniperus horizontalis	Wiltonii, Hughes, Webberi, Variegata, Blue Rug, Youngtown Compacta	Podocarpus macrophyllus	Maki
Juniperus japonica	San Jose	Potentilla verna	Spring cinquefoil
Juniperus sibirica	Tamariscifolia, Arcadia, Scandia, Broadmoor	Rhododendron indicum	Indica
Juniperus scopulorum	Welchii, Pathfinder	Rhododendron obtusum	Kurume Eureka
Juniperus virginiana	Sky Rocket, Grey owl	Rhododendron sp.	P.J.M.
Lantana montevidensis	White lantana	Rhoeo spathacea	Oyster plant
Leucothoe axillaris	Fetterbush	Ruellia ciliosa	Ruellia
Ligustrum japonicum	Japanese privet	Salix caroliniana	Willow
Lonicera japonica	Japanese honeysuckle	Spiraea x vanhouttei	Vanhoutte spirea
Nandina domestica	Heavenly bamboo	Syringa chinensis	Lilac
Nerium oleander standard	Oleander	Viburnum macrocephalum	Chinese snowball
Ophiopogon japonicum	Mondo grass		
Opuntia sp	Prickly pear cactus		
Pennisetum sectaceum	Green fountain grass		

TABLE III

**DIRECTED APPLICATIONS**  
to avoid ornamental foliage are recommended  
for the list below:

- When possible and plant growth habit allows, applications should be made as a directed spray to the plants listed below.
- Limited testing of the same plants has shown phytotoxicity of up to 50% when FUSILADE 4E is applied over-the-top at label rates.

Scientific Name	Common Name/ Variety
Acacia farnesiana	Sweet acacia
Acacia latifolia	

15/10/88

TABLE III (cont.)

Scientific Name	Common Name/ Variety	Scientific Name	Common Name/ Variety
<i>Aptenia cordifolia</i>	Hearts and flowers	<i>Peperomia obtusifolia</i>	Baby rubber plant
<i>Asystasia gangetica</i>	Coromandel	<i>Plectranthus australis</i>	Swedish Ivy
<i>Baccharis sarothroides</i>	Desert broom	<i>Polygonum capitatum</i>	Pinkhead knotweed
<i>Brachyctenon populneum</i>	Bottle tree	<i>Rhododendron indicum</i>	Formosa
<i>Cassia condaloma</i>		<i>Rhododendron obtusum</i>	Hersey red, Hino pink, Hinodageri
<i>Cerciflum praecox</i>	Sonoran palo verde	<i>Rhododendron poukhanensis</i>	Karen
<i>Citharexylum spinosum</i>	Fiddlewood	<i>Rhus aromatica</i>	Fragrant sumac
<i>Cordyline stricta</i>	Cordyline	<i>Thunbergia laurifolia</i>	Laurel-leaved thunbergia
<i>Cupaniopsis anacardioides</i>	Carrot wood	<i>Vaccinium ashel</i>	Tilblue Blueberry
<i>Crassula argentea</i>	Jade plant		
<i>Cyperus alternifolius</i>	Umbrella plant		
<i>Dicentra spectabilis</i>	Bleeding heart		
<i>Dracaena deremensis</i>	Janet Craig/Warneckii		
<i>Epipremnum aureum</i>	Marble Queen pothos		
<i>Eucalyptus nicholii</i>			
<i>Excoecaria cochichinensis</i>	Chinese crenate croton		
<i>Hibiscus leperii</i>			
<i>Juniperus chinensis</i>	Armstrongii		
<i>Juniperus scopulorum</i>	Spony Greek, Excelsa Stricta		
<i>Juniperus virginiana</i>	Burkii		
<i>Justicia betonia</i>	White shrimp plant		
<i>Justicia brandegeana</i>	Shrimp plant		
<i>Justicia carnea</i>	Kings crown		
<i>Magnolia grandiflora</i>	Southern magnolia		
<i>Mesembryanthemum deltoideum alba</i>	White ice plant (trailing)		
<i>Odontonema strictum</i>	Red justice		
<i>Oenothera bielandii</i>	Mexican evening primrose		
<i>Pachystachys lutea</i>	Yellow shrimp plant		
<i>Radlantus lithymaloides</i>	Slipper flower		

TABLE IV

**DIRECTED APPLICATIONS**  
to avoid ornamental foliage are recommended  
for the list below:

- When possible and plant growth habit allows, applications should be made as a directed spray to the plants listed below.
- Limited testing of the same plants has shown phytotoxicity greater than 50% when FUSILADE 4E is applied over-the-top at label rates.

Scientific Name	Common Name Variety
<i>Acalypha godeffiana heterophylla</i>	
<i>Alsophia australis</i>	Australia tree fern
<i>Betula nigra</i>	Birch/River

168822



TABLE IV (cont.)

Scientific Name	Common Name/ Variety
<i>Catharanthus roseus</i>	Madagascar periwinkle
<i>Chamaecyparis pisifera</i>	Boulevard falsecypress
<i>Chlorophytum comosum</i>	Spider plant
<i>Cortaderia settoana</i>	Pampas grass
<i>Euonymus alata</i>	Compacta
<i>Juniperus chinensis</i>	Sea Green
<i>Juniperus horizontalis</i>	Blue Chip, Prince of Wales, Bar Harbor
<i>Juniperus scopulorum</i>	Blue Haven
<i>Kalanchoe fedtschenkoi</i>	Lavender scalloped
<i>Kalanchoe tubiflora</i>	Chandelier plant
<i>Physocarpus fruticosus</i>	Katherine Dykes
<i>Rhododendron obtusum</i>	Hinocrimson
<i>Setcreasea purpurea</i>	Purple heart
<i>Zebrina pendula</i>	Wandering jew

**GENERAL REMARKS AND PRECAUTIONS**

Clean sprayer thoroughly before and after the application of FUSILADE 4E. Failure to clean sprayer thoroughly after application may result in injury to any grass crop subsequently sprayed, including corn, sorghum, small grains, sugarcane, rice and turfgrass.

Clean sprayer with water and a commercial sprayer cleaner or surfactant/adjuvant as per the recommended use directions of the respective products. Circulate the cleaning solution through the entire sprayer system. Spray approximately half of the tank solution through the hoses and nozzles to clean these parts. Properly drain the tank, as per procedures approved by state and local authorities, and rinse the total system several times with clean water.

Avoid drift to all other crops and non-target areas. Grass crops are highly susceptible to FUSILADE 4E.

Do not plant rotational grass crops such as corn, sorghum, cereals and turfgrass within 60 days after last application.

Do not tank-mix FUSILADE 4E with herbicides or other pesticides, with liquid fertilizers or with any other additives except as specified on this label or other supplemental labeling. Sequential applications of other herbicides except as specified on supplemental labeling within five days before or after FUSILADE 4E application has sometimes resulted in crop injury and reduced grass control.

**NOTICE TO BUYER AND USER:** It is impossible to test every species and variety or cultivar of ornamental or nursery plants under all conditions. Plant tolerance of pesticides vary as conditions vary. Plant tolerance of FUSILADE 4E at label rates has been found to be acceptable within the ranges specified for the indicated genera and species. Neither the manufacturer nor the seller has determined whether or not FUSILADE 4E can safely be used on plants not specified on this label. The professional user should determine if FUSILADE 4E can be used safely prior to use.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller and Buyer and User assumes the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

---

**Notes**

---

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in possession of the user at the time of application.

Cotton Tank-Mix with AMBUSH Insecticide or with CYMBUSH 3E Insecticide

Apply FUSILADE 4E, AMBUSH or CYMBUSH 3E in the tank mix when required according to the weed and insect problems present. Follow rate recommendations indicated in the tables below.

Region A<sup>1</sup>

Application Rate Table

FUSILADE 4E + AMBUSH	
Product	Rate <sup>2,3</sup>
FUSILADE 4E +	½ to ¾ pint (0.125-0.25 lb ai)/A
AMBUSH	0.4-0.8 pints (0.1-0.2 lb ai)/A ✓

  

FUSILADE 4E + CYMBUSH 3E	
Product	Rate <sup>2,3</sup>
FUSILADE 4E +	½ to ¾ pint (0.125-0.25 lb ai)/A ✓
CYMBUSH 3E	0.16-0.27 pints (0.06-0.10 lb ai)/A ✓

ACCEPTED  
MAY 30 1985  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-67

<sup>1</sup>Region A - All states except the areas of Arizona, California, New Mexico, West Oklahoma, West Texas, Utah and Colorado as outlined in the FUSILADE 4E label.

<sup>2</sup>Follow the recommended rate and growth stage for the grass weeds being treated, as per the FUSILADE 4E label. ✓

<sup>3</sup>Follow the recommended rate for the target insect pest, as per the AMBUSH or CYMBUSH 3E labels. ✓

Region B<sup>4</sup>  
Application Rate Table

<u>FUSILADE 4E + AMBUSH</u>	
<u>Product</u>	<u>Rate</u> <sup>5,6</sup>
FUSILADE 4E +	½ to 1 pint (0.25-0.5 lb ai)/A ✓
AMBUSH	0.4-0.8 pints (0.1-0.2 lb ai)/A ✓
<u>FUSILADE 4E + CYMBUSH 3E</u>	
<u>Product</u>	<u>Rate</u> <sup>5,6</sup>
FUSILADE 4E +	½ to 1 pint (0.25-0.5 lb ai)/A ✓
CYMBUSH 3E	0.16-0.27 pints (0.06-0.10 lb ai)/A ✓

<sup>4</sup>Region B - For the areas of Arizona, California, New Mexico, West Oklahoma, West Texas, Utah and Colorado as outlined in the FUSILADE 4E label.

<sup>5</sup>Follow the recommended rate and growth stage for the grass weeds being treated, as per the FUSILADE 4E label.

<sup>6</sup>Follow the recommended rate for the target insect pest, as per the AMBUSH or CYMBUSH 3E label.

Timing - Apply to actively growing grasses before they exceed the recommended growth stages shown on the FUSILADE 4E label. Apply as required for insect control based on scouting reports. Subsequent applications of AMBUSH or CYMBUSH 3E may be required at intervals of 5 to 7 days. New growth or regrowth of grasses may be treated when subsequent growth reaches recommended growth stages shown on label.

Do not apply if rainfall is expected within 1 hour.

Spray Additives (Cleared for use on growing crops)

Always add one of the following:

- Crop oil concentrate - Add a nonphytotoxic crop oil or a once refined vegetable oil concentrate containing 15-20% approved emulsifier; at 1% (1 qt. per 25 gallons) of the finished spray volume. ✓
- Nonionic surfactant - Add nonionic surfactant containing at least 75% surface active agent, at 0.25% (½ pint per 25 gallons) of the finished spray volume.

Ground Application - Use 5-40 gallons of total spray mixture per acre and 40-60 psi pressure. Sufficient spray volume and pressure should be provided to provide complete coverage of the foliage.

Use higher volumes and increase the pressure to 60 psi if foliage is dense to ensure complete coverage.

Band Applications - Band application equipment should be adjusted to provide maximum coverage of foliage in the planted row. Thorough coverage can be obtained with a nozzle directed to each side of the row towards the foliage in the planted row. Applications with a single nozzle over the top of the row are not recommended.

Do not use band applications when the grass is a perennial. Reinfestation of the treated band can result from the untreated middle.

Aerial Application - Use a minimum of 5 gallons of finished spray volume per acre. If the foliage is dense, increase the spray volume to 10 gallons per acre to improve coverage.

Mixing - Fill the spray tank half-full with water and add the recommended amounts of FUSILADE 4E + AMBUSH or CYMBUSH 3E while the agitator is running. Then add crop oil concentrate or nonionic surfactant and the remaining quantity of water and mix thoroughly.

#### Use Restrictions

- AMBUSH AND CYMBUSH ARE RESTRICTED USE PESTICIDES FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS, OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.
- Always read and follow the restrictions and limitations for all products whether used alone or in tank mix. The most restrictive labeling of any product used applies in tank mixtures.
- Do not apply a total of more than 1 quart of FUSILADE 4E herbicide per acre per season to cotton (1 lb ai/acre).
- Do not apply a total of more than 12 pints of AMBUSH per acre per season (3 lbs ai/acre).
- Do not apply a total of more than 1.0 lb ai of CYMBUSH 3E per acre per season.  $5 \text{ pints} = 3 \text{ lb/gal} = 1 \frac{1}{2} \text{ gal}$   $1 \frac{1}{2} \times 8 = 2.66 \text{ pts}$ .
- Do not harvest cotton within 100 days of FUSILADE 4E application.

- Do not apply FUSILADE 4E after boll set. ✓
- Do not graze or harvest for forage or hay. ✓
- Do not plant rotational crops such as corn, sorghum and cereals within 60 days after the last tank-mix application containing FUSILADE 4E. ✓
- Avoid drift to all other crops and nontarget areas. ✓
- Thoroughly flush spray tanks with water before and after each use. ✓
- Apply to foliage when grasses are actively growing. When weeds are under stress use AMBUSH or CYMBUSH alone to control insects. ✓

wigol052085pb01