

## **Notice of Weed Control Application**

**Date of Application:** June 17 – 24, 2026

**Location:** Median on Hills Center from Lake Mead to North Roundabout

**Reason for Application:** Target weed control in gazania beds

**Product Manufacturer Name:** Fusilade II

-EPA registration no. 100-1084

-Active ingredients: Fluazifop-P-Butyl

-Signal word: Caution

-Precautionary statement: Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Prolonged or frequently reported skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

**Product Manufacturer Name:** Induce

-EPA registration no. N/A

-Active ingredients: Alkyl Aryl Polyoxylkane ethers, alkanolamides, dimethyl siloxane, and Free Fatty Acids

-Signal word: Warning

-Precautionary statement: May be harmful if swallowed. May be harmful in contact with skin. Causes serious eye irritation. Causes skin irritation.

**\*No applications within 25 feet of playgrounds**

**\*Product Labels and Safety Data Sheets Follow**

**\*Dates are subject to change due to weather**

GROUP 1 HERBICIDE

PULL HERE TO OPEN ►



**Fusilade® II**  
Turf and ornamental herbicide

**syngenta.**

## Herbicide

For the control of grass weeds in landscape areas, roadsides, nurseries, greenhouses, flower beds, groundcovers, interiorscapes, parks, sports fields, golf courses, commercial and residential areas.

*Active Ingredient:*

Fluazifop-P-butyl

Butyl (R)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoate\* . . . . . 24.5%

*Other Ingredients* . . . . . 75.5%

*Total:* . . . . . 100.0%

\*Fusilade II Turf and Ornamental Herbicide is an emulsifiable concentrate containing 2 pounds (+) isomer (fluazifop-P-butyl) per gallon.

Contains petroleum distillate.

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1084

EPA Est. No. 11773-IA-01<sup>VWC</sup>

EPA Est. No. 46073-TN-003<sup>NTM</sup>

(Superscript is first three letters of batch code on container)

Product of United Kingdom

Formulated in the USA

SCP 1084A-L1F 0616

4067574

**1 quart**

Net Contents



## PRECAUTIONARY STATEMENTS (continued)

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

**Applicators and handlers (other than mixers and loaders) must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or nitrile rubber or Viton® or neoprene rubber
- Shoes plus socks

**Mixers and Loaders must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or nitrile rubber or Viton or neoprene rubber
- Shoes plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading

### USER SAFETY REQUIREMENTS

Follow the 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.

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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 washwaters or rinsate. Do not apply when weather conditions favor drift from target area.

### Ground Water Advisory

Fluazifop-P-butyl is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## **DIRECTIONS FOR USE**

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

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

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

**AGRICULTURAL USES: COMMERCIAL SOD FARMS, ORNAMENTALS GROWN IN COMMERCIAL GREENHOUSES AND NURSERIES, TREE FARMS AND CHRISTMAS TREES**

### **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 the 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.

Fusilade II Turf and Ornamental Herbicide is a systemic herbicide which moves from the treated foliage into the shoots, roots, rhizomes, stolons, and growing points (meristematic regions) of treated grass weeds.

Fusilade II Turf and Ornamental Herbicide is rainfast in one hour.

### CONTROL SYMPTOMS

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 weed plant. Symptoms are generally observed within 7-14 days after treatment, depending on grass weed species and environmental conditions. Complete control occurs from 10-21 days following application.

|       |   |           |
|-------|---|-----------|
| GROUP | 1 | HERBICIDE |
|-------|---|-----------|

### MANAGEMENT OF RESISTANT WEEDS

Fusilade II Turf and Ornamental Herbicide is a Group 1 herbicide (ACCCase-inhibitor mode of action). Some naturally occurring grass weed populations have been identified as resistant to herbicides with the ACCCase-inhibitor mode of action. Selection of resistant biotypes, through repeated use of these herbicides in the same field, may result in control failures. A resistant biotype may be present if poor performance cannot be attributed to adverse weather conditions or improper application methods. If resistance is suspected, contact your local Syngenta representative for assistance.

### Principles of Herbicide Resistance Management

- Ensure that good spray coverage is achieved with proper spray volumes and calibrated equipment.
- Use the full label rate of product.
- Apply integrated weed management practices. Use multiple herbicide mechanisms of action with overlapping weed spectrums in rotation, sequences, or mixtures.
- Use cultivation, fertilizer regimens, seeding rates and row widths that enhance crop competitiveness.
- Prevent weed escapes from producing seed.

### APPLICATION DIRECTIONS

Thorough coverage of all weed plant foliage is important for good activity. Optimum weed control is achieved when young actively growing weeds are treated that are not under stress from moisture, temperature, low soil fertility, mechanical, or chemical injury.

**TIMING** – Best control of susceptible grass weeds is obtained when Fusilade II Turf and Ornamental Herbicide is applied to actively growing grass weeds before they exceed the listed growth stages shown on this label. Refer to the grass weed table for specific directions on weed growth stages.

For best control, use sufficient spray volume and pressure to ensure complete coverage of the target grass weeds. Apply in 1-2 gallons

- Sequential applications of other herbicides except as specified on this label or on supplemental labeling within five days before or after Fusilade II Turf and Ornamental Herbicide application may result in ornamental injury and/or reduced grass weed control.
- Thoroughly clean spray tank with water and a commercial tank cleaner before and after each use.
- Reduced grass weed control may be observed if rainfall or irrigation occurs within one hour of application.
- It is recommended not to store Fusilade II Turf and Ornamental Herbicide in or around homes.
- **RESTRICTION: DO NOT GRAZE ANIMALS IN TREATED AREAS OR FEED TREATED PLANTS.**
- **REFER TO THE GRASS WEED TABLE FOR SPECIFIC DIRECTIONS ON WEED GROWTH STAGES.**

**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 varies as conditions vary. Plant tolerance of Fusilade II Turf and Ornamental Herbicide 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 II Turf and Ornamental Herbicide can safely be used on plants not specified on this label. The user should determine if Fusilade II Turf and Ornamental Herbicide can be used safely prior to use.

Fusilade II Turf and Ornamental Herbicide may be applied as an over-the-top spray or a directed spray application in ornamentals.

## APPLICATION RATES

### LANDSCAPE AND ORNAMENTALS

For landscaped areas in residential, commercial, public and industrial buildings, roadsides, tree farms, Christmas trees, field grown ornamentals, greenhouses, nurseries, flower beds, industrial weed control, roadsides, including rights of ways, utility easements, and utility structures:

Fusilade II Turf and Ornamental Herbicide can be used to control annual and perennial grass weeds in many newly transplanted and established dicot ornamentals, trees, shrubs, and ground covers. See Tables 2-5 for specific plant safety.

Apply 16-24 fl oz/A (0.4 – 0.6 fl oz/1,000 sq ft) of Fusilade II Turf and Ornamental Herbicide in sufficient water along with 0.25% (1/2 pt/25 gal) of a nonionic surfactant. Use only nonionic surfactant on ornamentals. **DO NOT USE A CROP OIL CONCENTRATE WITH FUSILADE II TURF AND ORNAMENTAL HERBICIDE ON ORNAMENTALS.**

### SPOT TREATMENTS AND DIRECTED SPRAYS (NOT FOR USE ON TURFGRASS)

Mix Fusilade II Turf and Ornamental Herbicide 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 Mixing Directions

| To Make This Spray Volume | Add These Amounts                         |                     |
|---------------------------|---|---------------------|
|                           | Fusilade II Turf and Ornamental Herbicide | Nonionic Surfactant |
| 1 gal                     | 0.75 fl oz                                | 1/2 fl oz           |
| 10 gal                    | 6.5 fl oz                                 | 3 fl oz             |
| 25 gal                    | 1 pt                                      | 1/2 pt              |
| 50 gal                    | 1 qt                                      | 1 pt                |

#### GRASS WEED CONTROL IN DESIRABLE TURFGRASS

For the suppression and/or control of Common Bermudagrass, Hybrid Bermudagrass and other grass weeds in Zoysia, Fine Fescue and Tall Fescue turfgrass in golf courses, residential, commercial, public and industrial buildings turfgrass areas.

Do not apply to Tall Fescue turfgrass during the summer.

Apply 3-6 fl oz/A along with 0.25% v/v (1/2 pt/25 gal) of a nonionic surfactant. Application should be made every 28 days when the grass weeds are actively growing. The higher rates may result in temporary discoloration of the desirable turf with recovery in 10-14 days. **Do not apply to Zoysia, Fine Fescue and Tall Fescue turfgrasses which are under stress.** For best results, make applications in spring and fall and avoid treatments during July and August.

Complete control of undesirable grass weeds may take multiple sequential applications over 1-2 growing seasons.

**Over-spray Zoysiagrass:** Application should be made at a rate of 3-4 fl oz/A with Fusilade II Turf and Ornamental Herbicide, and a nonionic surfactant. Applications should be made in late spring (around June 1) and repeated about every 28-30 days. Late-summer application can be reduced to 2-3 fl oz/A as bermudagrass is preparing for dormancy. During hot summer weather the rates could be increased to 4-5 fl oz/A. **Note:** The 5 fl oz/A rate could cause temporary turf discoloration.

**Table 1. Annual and Perennial Grass Weeds  
Controlled by Fusilade II Turf and  
Ornamental Herbicide (continued)**

| COMMON NAME            | SCIENTIFIC NAME                | GROWTH STAGE (INCHES) |
|------------------------|--------------------------------|-----------------------|
| Foxtail, Yellow        | <i>Setaria lutescens</i>       | 2-8                   |
| Goosegrass             | <i>Eleusine indica</i>         | 2-8                   |
| Guineagrass, seedling  | <i>Panicum maximum</i>         | 6-12                  |
| Italian Ryegrass       | <i>Lolium multiflorum</i>      | 2-8                   |
| Itchgrass              | <i>Rottboellia exaltata</i>    | 2-8                   |
| Johnsongrass, Rhizome  | <i>Sorghum halepense</i>       | 8-18                  |
| Johnsongrass, Seedling | <i>Sorghum halepense</i>       | 8-18                  |
| Junglerice             | <i>Echinochloa colonum</i>     | 2-8                   |
| Kikuyugrass*           | <i>Pennisetum clandestinum</i> | 4-8                   |
| Prairie cupgrass       | <i>Eriochloa contracta</i>     | 2-8                   |
| Quackgrass             | <i>Agropyron repens</i>        | 6-10                  |
| Rabbitfootgrass        | <i>Polypogon monspeliensis</i> | 2-8                   |
| Red Rice               | <i>Oryza sativa</i>            | 2-8                   |
| Shattercane            | <i>Sorghum bicolor</i>         | 2-8                   |
| Sorghum alnum          | <i>Sorghum alnum</i>           | 2-8                   |
| Southern Sandbur       | <i>Cenchrus echinatus</i>      | 2-8                   |
| Southwestern cupgrass  | <i>Eriochloa gracilis</i>      | 2-8                   |
| Texas Panicum          | <i>Panicum texanum</i>         | 2-8                   |
| Torpedograss**         | <i>Panicum repens</i>          | 3-10                  |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals.**

| COMMON NAME/VARIETY        | SCIENTIFIC NAME                         |
|----------------------------|---|
| Abelia, Glossy             | <i>Abelia grandiflora</i>               |
| Acacia, Jim wheat          | <i>Acacia schafnerii</i>                |
| Acacia, Shoe-string        | <i>Acacia stenophylla</i>               |
| Acacia, Willow             | <i>Acacia saligna</i>                   |
| Acacia, Willow-leafed      | <i>Acacia salacina</i>                  |
| Ageratum sp.               | <i>Ageratum sp.</i>                     |
| Almond, Flowering          | <i>Prunus triloba</i>                   |
| Aloe, Barbados             | <i>Aloe barbadensis</i>                 |
| Aloe vera                  | <i>Aloe vera</i>                        |
| Aloe zanzibarica           | <i>Aloe zanzibarica</i>                 |
| Alyssum sp.                | <i>Alyssum sp.</i>                      |
| Ash, American Mountain     | <i>Sorbus americana*</i>                |
| Ash, Arizona               | <i>Fraxinus velutina</i>                |
| Ash, Green                 | <i>Fraxinus pennsylvanica*</i>          |
| Ash, White                 | <i>Fraxinus americana*</i>              |
| Asparagus, Myres           | <i>Asparagus densiflorus</i>            |
| Asparagus, Sprenger        | <i>Asparagus densiflorus</i>            |
| Aucuba                     | <i>Aucuba japonica</i>                  |
| Aucuba japonica variegata  | <i>Aucuba japonica variegata</i>        |
| Aurea                      | <i>Philadelphius coronarius</i>         |
| Banana, Ethiopia           | <i>Musa aurelii</i>                     |
| Banksia                    | <i>Rosa Banksiae</i>                    |
| Barberry, Mentor           | <i>Berberis mentorensis</i>             |
| Barberry, Redleaf Japanese | <i>Berberis thunbergii*</i>             |
| Bearberry, Red             | <i>Arctostaphylos uva-ursi</i>          |
| Begonia, Scarletta         | <i>Begonia Semperflorens cultoreum*</i> |
| Bellflower                 | <i>Campanula carpatica</i>              |
| Birch, Eastern white       | <i>Betula pendula*</i>                  |
| Bird, Giant of paradise    | <i>Strelitzia nicolai</i>               |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals. (continued)**

| COMMON NAME/VARIETY          | SCIENTIFIC NAME                        |
|------------------------------|--|
| Cherry, Brush                | <i>Eugenia myrtifolia</i>              |
| Cherry, Carolina             | <i>Prunus caroliniana ompacta</i>      |
| Chives                       | <i>Allium schoenoprasum</i>            |
| Cleyera                      | <i>Cleyera spp.</i>                    |
| Cleyera                      | <i>Ternstroemia gymnanthera</i>        |
| Clover, Pink                 | <i>Polygonum capitatum</i>             |
| Coffee                       | <i>Coffea arabica</i>                  |
| Coleus                       | <i>Coleus x hybridus*</i>              |
| Coleus, Jade wizard          | <i>Coleus x hybridus</i>               |
| Coolibah, Gum-barked         | <i>Eucalyptus microtheca</i>           |
| Coreopsis, Threadleaf        | <i>Coreopsis verticillata</i>          |
| Coronet, Orange              | <i>Calendula officinalis*</i>          |
| Cotoneaster                  | <i>Cotoneaster microphyllus</i>        |
| Cotoneaster                  | <i>Cotoneaster repens</i>              |
| Cotoneaster apiculata        | <i>Cotoneaster apiculata</i>           |
| Cotoneaster, Coral beauty    | <i>Cotoneaster dammeri</i>             |
| Cotoneaster, Royal beauty    | <i>Cotoneaster dammeri</i>             |
| Cotoneaster, Spreading       | <i>Cotoneaster divaricatus</i>         |
| Cotoneaster, Willowleaf      | <i>Cotoneaster salicifolius franch</i> |
| Crabapple, Showy             | <i>Malus floribunda</i>                |
| Cranesbill                   | <i>Geranium pratense</i>               |
| Creeper, Blue star           | <i>Isotoma spp.</i>                    |
| Crossandra                   | <i>Crossandra nilotica</i>             |
| Croton                       | <i>Codiaeum variegatum</i>             |
| Crown Vetch                  | <i>Vicia sp.</i>                       |
| Cypress, Allum lawson        | <i>Chamaecyparis lawsoniana</i>        |
| Cypress, Cripps hinoki false | <i>Chamaecyparis obtusa</i>            |
| Cypress, Italian             | <i>Cupressus sempervirens</i>          |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals. (continued)**

| COMMON NAME/VARIETY                            | SCIENTIFIC NAME                         |
|--|---|
| Fig, Exotica weeping                           | <i>Ficus benjamina</i>                  |
| Fig, Trailing hottentot                        | <i>Carpobrotus chilensis*</i>           |
| Fir, Balsam                                    | <i>Abies balsamea*</i>                  |
| Fir, Concolor                                  | <i>Abies concolor</i>                   |
| Fir, Douglas                                   | <i>Pseudotsuga mensiessi</i>            |
| Fir, Noble                                     | <i>Abies procera</i>                    |
| Firethorn                                      | <i>Pyracanthus graberi</i>              |
| Firethorn, Mojave                              | <i>Pyracanthus koidzumii x coccinea</i> |
| Firethorn, Scarlet, Lalandei                   | <i>Pyracanthus coccinea</i>             |
| Firethorn, Variegated                          | <i>Pyracanthus angustifolia</i>         |
| Flower, Spider                                 | <i>Grevillea rosmarinifolia</i>         |
| Forsythia intermedia                           | <i>Forsythia intermedia</i>             |
| Forsythia spp.                                 | <i>Forsythia spp.</i>                   |
| Forsythia, weeping                             | <i>Forsythia suspensa</i>               |
| Forsythia x intermedia                         | <i>Forsythia x intermedia</i>           |
| Gardenia, dwarf                                | <i>Gardenia jasminoides</i>             |
| Gardenia, Tahitian                             | <i>Gardenia taitensis</i>               |
| Gay feather                                    | <i>Liatris spicata</i>                  |
| Gazania gold rush                              | <i>Gazania splendens</i>                |
| Gazania uniflora leucoleana                    | <i>Gazania uniflora leucoleana</i>      |
| Geranium                                       | <i>Pelargonium domesticum</i>           |
| Geranium, Ivy                                  | <i>Pelargonium peltatum</i>             |
| Geranium, Smash Hit Red                        | <i>Pelargonium x hortorum*</i>          |
| Gimlet, Narrow-leaf                            | <i>Eucalyptus spathulata</i>            |
| Gladiolus, Debbie, Jennie, Mahogany, stargazer | <i>Gladiolus x hortulanus</i>           |
| Grapefruit                                     | <i>Citrus paradist</i>                  |
| Grapholly, Oregon                              | <i>Magnolia sp.</i>                     |
| Grass, Red fountain                            | <i>Pennisetum setaceum</i>              |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals. (continued)**

| COMMON NAME/VARIETY            | SCIENTIFIC NAME                    |
|--------------------------------|------------------------------------|
| Iris                           | <i>Iris spp.</i>                   |
| Ironwood                       | <i>Olneya tesota</i>               |
| Ivy, Algerian                  | <i>Hedera canariensis</i>          |
| Ivy, Ellen Danica, grape       | <i>Cissus rhombifolia</i>          |
| Ivy, English                   | <i>Hedera helix</i>                |
| Ivy, Hahn's                    | <i>Hedera helix hahnii</i>         |
| Ixora                          | <i>Ixora coccinea</i>              |
| Jacaranda                      | <i>Jacaranda acutifolia</i>        |
| Jacobina ghiesbreghtiana       | <i>Jacobina ghiesbreghtiana</i>    |
| Jasmine, Star                  | <i>Trachelospermum jasminoides</i> |
| Jasmine, Asiatic               | <i>Trachelospermum asiaticum</i>   |
| Jessamine, Carolina            | <i>Gelsemium sempervirens</i>      |
| Jojoba                         | <i>Simmondsia chinensis</i>        |
| Juniper, Admiral               | <i>Juniperus horizontalis*</i>     |
| Juniper, Cologreen             | <i>Juniperus scopulorum</i>        |
| Juniper, Red cedar             | <i>Juniperus virginiana</i>        |
| Lantana, Bush                  | <i>Lantana camera</i>              |
| Lantana, Purple (trailing)     | <i>Lantana sellowiana</i>          |
| Lantana, Twistwood             | <i>Viburnum lantana*</i>           |
| Lantana, Wayfaring tree        | <i>Viburnum lantana*</i>           |
| Laurel, Indian                 | <i>Ficus microcarpa nitida</i>     |
| Laurel, Indian                 | <i>Ficus nitida</i>                |
| Legume, O'Connors              | <i>Trifolium fragiferum</i>        |
| Lentago, Nannyberry            | <i>Viburnum lentago*</i>           |
| Leptospermum laevigatum        | <i>Leptospermum laevigatum</i>     |
| Ligustrum, Amur River          | <i>Ligustrum amurense</i>          |
| Ligustrum, Privet / California | <i>Ligustrum ovalifolium</i>       |
| Ligustrum, Texas privet        | <i>Ligustrum texanum</i>           |
| Ligustrum, Vicari              | <i>Ligustrum x Vicari</i>          |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals. (continued)**

| COMMON NAME/VARIETY               | SCIENTIFIC NAME                   |
|-----------------------------------|-----------------------------------|
| Olive, Russian                    | <i>Elaeagnus angustifolia</i>     |
| Olive tree                        | <i>Olea europaea</i>              |
| Ongerops, Acacia                  | <i>Acacia redolens</i>            |
| Orange, Sour                      | <i>Citrus aurantium</i>           |
| Pachysandra, Japanese             | <i>Pachysandra terminalis</i>     |
| Pagoda flower                     | <i>Clerodendrum speciosum</i>     |
| Palibin                           | <i>Syringa meyeri</i>             |
| Palm, Canary Island date          | <i>Phoenix canariensis</i>        |
| Palm, Chinese fan                 | <i>Livistona chinensis</i>        |
| Palm, Golden fruited (small)      | <i>Chrysalidocarpus lutescens</i> |
| Palm, Mediterranean fan           | <i>Chamaerops humilis</i>         |
| Palm, Mexican fan                 | <i>Washington robusta</i>         |
| Palm, Pygmy date                  | <i>Phoenix roebelenii</i>         |
| Palm, Queen                       | <i>Acrecastrum romanzoffianum</i> |
| Palm Queen                        | <i>Cocos plumosa</i>              |
| Palm, Sago                        | <i>Cycus revoluta</i>             |
| Palm, Windmill                    | <i>Chamaerops excelsa</i>         |
| Palo Verde, green                 | <i>Parkensonia aculeata</i>       |
| Panax, Parsley                    | <i>Polyscias fruticosa</i>        |
| Passion vine                      | <i>Passiflora pfordtii</i>        |
| Pear, Bradford                    | <i>Pyrus calleryana</i>           |
| Pepper, Brazilian                 | <i>Schinus terebinthifolius</i>   |
| Periwinkle                        | <i>Vinca major</i>                |
| Periwinkle, Myrtle, dwarf         | <i>Vinca minor</i>                |
| Petunia spp.                      | <i>Petunia spp.</i>               |
| Philodendron selloum              | <i>Philodendron selloum</i>       |
| Philodendron, "Micans" velvetleaf | <i>Philodendron oxycardium</i>    |
| Photinia                          | <i>Photinia x fraseri</i>         |
| Phyllostachys, Golden bamboo      | <i>Phyllostachys aurea</i>        |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals. (continued)**

| COMMON NAME/VARIETY                    | SCIENTIFIC NAME                 |
|--|---------------------------------|
| Plant, Waffle plant / metallic         | <i>Hemigraphis</i> sp.          |
| Plum, Natal                            | <i>Carissa grandiflora</i>      |
| Plumbago, Cane                         | <i>Plumbago capensis</i>        |
| Plumosa                                | <i>Chamaecyparis pisifera</i>   |
| Polystichum capense                    | <i>Polystichum capense</i>      |
| Portulaca, Sunglo                      | <i>Portulaca grandiflora</i> *  |
| Potentilla, Gold drop, Primrose beauty | <i>Potentilla fructosa</i>      |
| Potentilla verna                       | <i>Potentilla verna</i> *       |
| Protea                                 | <i>Protea compacta</i> *        |
| Protea                                 | <i>Protea eximia</i> *          |
| Protea                                 | <i>Protea repens</i> *          |
| Protea, Giant / King                   | <i>Protea cynaroides</i>        |
| Protea, Oleander-leaved                | <i>Protea nerifolia</i> *       |
| Pygmy, Crimson                         | <i>Berberis thunbergii</i> *    |
| Pyracanth, Lodense                     | <i>Pyracanth koidzumii</i>      |
| Quince, Flowering                      | <i>Chaenomeles speciosa</i> *   |
| Radiator plant                         | <i>Peperomia scandens</i>       |
| Rhododendron                           | <i>Rhododendron formosa</i>     |
| Rhododendron, Amoenum                  | <i>Rhododendron obtusum</i>     |
| Rhododendron, Blaauw's pink            | <i>Rhododendron</i> spp.        |
| Rhododendron, Boule de neige           | <i>Rhododendron</i> spp.        |
| Rhododendron, Chionoides               | <i>Rhododendron catawbiense</i> |
| Rhododendron, Coral bells              | <i>Rhododendron obtusum</i>     |
| Rhododendron, Delaware Valley white    | <i>Rhododendron</i> spp.        |
| Rhododendron, Elizabeth Gable          | <i>Rhododendron catawbiense</i> |
| Rhododendron, English roseum           | <i>Rhododendron catawbiense</i> |
| Rhododendron, Fashio                   | <i>Rhododendron</i> spp.        |
| Rhododendron, Gerard's Rose            | <i>Rhododendron</i> spp.        |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals. (continued)**

| <b>COMMON NAME/VARIETY</b>                   | <b>SCIENTIFIC NAME</b>                   |
|--|--|
| Rhododendron, Roseum superbum                | <i>Rhododendron catawbiense</i>          |
| Rhododendron, Royalty                        | <i>Rhododendron spp.</i>                 |
| Rhododendron, Rutherfordiana Constances      | <i>Rhododendron spp.</i>                 |
| Rhododendron, Salmon spray                   | <i>Rhododendron spp.</i>                 |
| Rhododendron, Snow                           | <i>Rhododendron spp.</i>                 |
| Rhododendron, Stewartsonian                  | <i>Rhododendron spp.</i>                 |
| Rhododendron, Sweethart                      | <i>Rhododendron spp.</i>                 |
| Rhododendron, Tabor                          | <i>Rhododendron spp.</i>                 |
| Rhododendron, Tradition                      | <i>Rhododendron spp.</i>                 |
| Rhododendron, White cascade                  | <i>Rhododendron spp.</i>                 |
| Rhododendron, White catawba                  | <i>Rhododendron catawbiense</i>          |
| Rhododendron "Gable Hybrid"                  | <i>Rhododendron "Gable Hybrid"</i>       |
| Rhuellia californica                         | <i>Rhuellia californica</i>              |
| Rose   | <i>Rosa spp.</i>                         |
| Rose, Hybrid tea                             | <i>Rosa hybrida</i>                      |
| Rose, Rock                                   | <i>Cistus hybridus</i>                   |
| Rosemary dwarf                               | <i>Rosmarinus officinalis prostratus</i> |
| Rubber tree                                  | <i>Ficus elastica decora</i>             |
| Sage, Texas                                  | <i>Leucophyllum frutescens</i>           |
| Sally, Moneywort / Wandering                 | <i>Lysimachia nummularia</i>             |
| Saltbush                                     | <i>Atriplex spp.</i>                     |
| Salvia greggii                               | <i>Salvia greggi</i>                     |
| Sandwort                                     | <i>Arenaria verna</i>                    |
| Sansevieria, Hahaii / Mother-in-law's tongue | <i>Sansevieria trifasciata</i>           |
| Sansevieria, Moon Glow                       | <i>Sansevieria spp.</i>                  |

**Table 2. Over-the-Top Applications May be Applied to the Following Ornamentals. Use only nonionic surfactants on ornamentals. (continued)**

| <b>COMMON NAME/VARIETY</b>        | <b>SCIENTIFIC NAME</b>              |
|-----------------------------------|-------------------------------------|
| Thuga, Emerald green              | <i>Thuga occidentalis</i>           |
| Thuga, Globosa                    | <i>Thuga occidentalis</i>           |
| Thuga, Pyramidalis                | <i>Thuga occidentalis</i>           |
| Thuga, Techny                     | <i>Thuga occidentalis</i>           |
| Thuga, Techny american arborvitae | <i>Thuga occidentalis</i>           |
| Thuga, White Cedar                | <i>Thuga occidentalis</i>           |
| Thuga, Woodwardii                 | <i>Thuga occidentalis</i>           |
| Trachelospermum asiaticum         | <i>Trachelospermum asiaticum</i>    |
| Tree, Firewheel                   | <i>Stenocarpus sinuatus</i>         |
| Tree, Golden-rain                 | <i>Koelreuteria paniculata*</i>     |
| Tree, New Zealand Christmas       | <i>Metrosideros excelsus</i>        |
| Tree, Pagoda                      | <i>Sophora japonica*</i>            |
| Tree, Varnish                     | <i>Koelreuteria panicalata</i>      |
| Tree, Yellow oleander             | <i>Thevetia peruviana</i>           |
| Viburnum, Arrowwood               | <i>Viburnum dentatum</i>            |
| Viburnum, Compact cranberrybush   | <i>Viburnum trilobum</i>            |
| Viburnum, Doublefile / tomentosum | <i>Viburnum plicatum</i>            |
| Viburnum, Japanese snowball       | <i>Viburnum japonicum</i>           |
| Viburnum, Judd                    | <i>Viburnum x juddi</i>             |
| Viburnum, Nanum                   | <i>Viburnum opulus</i>              |
| Viburnum, Spandankwa              | <i>Viburnum suspensum</i>           |
| Viburnum, Willowwood              | <i>Viburnum x rhytidophylloides</i> |
| Weigelia, Newport red             | <i>Weigelia florida</i>             |
| Weigelia, Pink                    | <i>Weigelia florida</i>             |
| Welleri                           | <i>Buxus sempervirens</i>           |
| Willow, Australia                 | <i>Geijera parviflora</i>           |
| Willow, Basket                    | <i>Salix purpurea</i>               |

**Table 3. Directed Applications. Use only nonionic surfactants on ornamentals. (continued)**

| COMMON NAME / VARIETY       | SCIENTIFIC NAME                    |
|-----------------------------|------------------------------------|
| Cactus, Prickly pear        | <i>Opuntia sp.</i>                 |
| Cats Claw, Yellow trumpet   | <i>Begonia tweediana</i>           |
| Ceanothus griseus           | <i>Ceanothus griseus</i>           |
| Cinquefoil, Spring          | <i>Potentilla verna</i>            |
| Columbine                   | <i>Aquilegia hybrida</i>           |
| Cypress, Leyland            | <i>Cupressocyparis leylandi</i>    |
| Dracaena, Massangeana       | <i>Dracaena fragans</i>            |
| Dracaena, Tricolor          | <i>Dracaena marginata</i>          |
| Eureka                      | <i>Rhododendrum obtusum</i>        |
| Fetterbush                  | <i>Leucothoe axillaris</i>         |
| Fir, Fraser                 | <i>Abies fraser</i>                |
| Gallery                     | <i>Gladiolus x hortulanus</i>      |
| Gamolepsis chrysanthemoides | <i>Gamolepsis chrysanthemoides</i> |
| Gazania ringens             | <i>Gazania ringens</i>             |
| Grass, Green fountain       | <i>Pennisetum sectaceum</i>        |
| Grass, Mondo                | <i>Ophiopogon japonicum</i>        |
| Green carpet                | <i>Herniaria glabra</i>            |
| Guava, Pineapple            | <i>Feijoa sellowiana</i>           |
| Gum, Lemon-scented          | <i>Eucalyptus citriodora</i>       |
| Honeysuckle, Japanese       | <i>Lonicera japonica</i>           |
| Indica                      | <i>Rhododendrum indicum</i>        |
| Juniper, Arcadia            | <i>Juniperus sabina</i>            |
| Juniper, Blue Pacific       | <i>Juniperus conferta</i>          |
| Juniper, Blue Rug           | <i>Juniperus horizontalis</i>      |
| Juniper, Broadmoor          | <i>Juniperus sabina</i>            |
| Juniper, Grey Owl           | <i>Juniperus virginiana</i>        |
| Juniper, Hughes             | <i>Juniperus horizontalis</i>      |
| Juniper, Maney              | <i>Juniperus chinensis</i>         |
| Juniper, Nana               | <i>Juniperus chinensis</i>         |
| Juniper, Old Gold           | <i>Juniperus chinensis</i>         |

**Table 3. Directed Applications. Use only nonionic surfactants on ornamentals. (continued)**

| COMMON NAME / VARIETY | SCIENTIFIC NAME             |
|-----------------------|-----------------------------|
| Star plant, Lavender  | <i>Grewia caffra</i>        |
| Sunglow               | <i>Rhododendrum obtusum</i> |
| Tree, Strawberry      | <i>Arbustus unedo</i>       |
| Varigated ajuga       | <i>Ajuga reptans</i>        |
| Willow                | <i>Salix caroliniana</i>    |

\*Not applicable in California.

**Table 4. Directed Applications. Use only nonionic surfactants on ornamentals.**

- When plant growth habit allows, applications should be made as a directed spray to the ornamental plants listed below to minimize phytotoxicity.
- Limited testing of the ornamental plants listed below has shown phytotoxicity of up to 50% when Fusilade II Turf and Ornamental Herbicide is applied over-the-top at label rates. (Phytotoxicity can occur whenever spray comes in contact with the foliage, even during directed sprays).

| COMMON NAME VARIETY    | SCIENTIFIC NAME                  |
|------------------------|----------------------------------|
| Acacia                 | <i>Acacia latifolia</i>          |
| Acacia sweet           | <i>Acacia farnesiana</i>         |
| Bleeding heart         | <i>Dicentra spectabilis</i>      |
| Blueberry tifblue      | <i>Vaccinum achei</i>            |
| Bottle tree            | <i>Brachychiton populneum</i>    |
| Carrot wood            | <i>Cupaniopsis anacardioides</i> |
| Cassia                 | <i>Cassia condolioma</i>         |
| Cherry mazzard         | <i>Avium* prunum</i>             |
| Cordyline              | <i>Cordyline stricta</i>         |
| Coromandel             | <i>Asystasia gangetica</i>       |
| Croton chinese crenate | <i>Exococaria cochichinensis</i> |
| Desert broom           | <i>Baccharis sarothorides</i>    |
| Eucalyptus             | <i>Eucalyptus nicholii</i>       |
| Fiddlewood             | <i>Citharexylum spinosum</i>     |
| Hearts and flowers     | <i>Aptenia cordifolia</i>        |
| Hibiscus               | <i>Hibiscus lepenk</i>           |

**Table 5. Directed Applications. Use only nonionic surfactants on ornamentals.**

- When plant growth habit allows, applications should be made as a directed spray to the ornamental plants listed below to minimize phytotoxicity.
- Limited testing of the ornamental plants listed below has shown phytotoxicity **greater than 50%** when Fusilade II Turf and Ornamental Herbicide is applied over-the-top at label rates. (Phytotoxicity can occur whenever spray comes in contact with the foliage, even during directed sprays.)

| COMMON NAME/VARIETY      | SCIENTIFIC NAME                                   |
|--------------------------|---|
| Birch river              | <i>Alsophia australis</i>                         |
| Chandelier plant         | <i>Kalanchoe tubiflora</i>                        |
| Compacta                 | <i>Euonymus alata</i>                             |
| Falsecypress boulevard   | <i>Chamaecyparis pisifera</i>                     |
| Fern australia tree      | <i>Acalypha godsefeiana</i><br><i>hertophylla</i> |
| Grass pampas             | <i>Coprtederia selloana</i>                       |
| Juniper, Bar Harbor      | <i>Juniperus spp.</i>                             |
| Juniper, Blue chip       | <i>Juniperus horizontalis</i>                     |
| Juniper, Blue Haven      | <i>Juniperus scopulorum</i>                       |
| Juniper, Prince of Wales | <i>Juniperus spp.</i>                             |
| Juniper, Sea green       | <i>Juniperus chinensis</i>                        |
| Katherine Dykes          | <i>Physocarps fruticosa</i>                       |
| Lavender-scallops        | <i>Kalanchoe fedtschenkoi</i>                     |
| Periwinkle madagascar    | <i>Catharanthus roseus</i>                        |
| Purple heart             | <i>Setcreasea purpurea</i>                        |
| Spider plant             | <i>Chlorophytum comosum</i>                       |
| Wandering jew            | <i>Zebrina pendula</i>                            |

## **STORAGE AND DISPOSAL**

*(continued)*

### **Container Handling [greater than 5 gallons - bulk]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

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For non-emergency (e.g., current product information), call  
Syngenta Crop Protection at 1-800-334-9481

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

**SCP 1084A-L1F 0616  
4067574**

## Precautionary Statements

### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

#### FIRST AID

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **If 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 in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If swallowed:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **NOTE TO PHYSICIAN:** Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**HOT LINE NUMBER:** For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call **1-800-888-8372**.

**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 washwaters or rinsate. Do not apply when weather conditions favor drift from target area.

**Ground Water Advisory:** Fluazifop-P-butyl is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**Surface Water Advisory:** This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of fluazifop-p-butyl from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours. This product is toxic to fish.

**Physical or Chemical Hazards:** Do not use or store near heat or open flame.

## STORAGE AND DISPOSAL

See complete storage and disposal instructions inside booklet.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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 by other procedures approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

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Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

**SCP 1084A-L2F 0616 4067575**



## FUSILADE® II TURF AND ORNAMENTAL HERBICIDE

Date: 6/24/2016  
Replaces: 6/9/2016

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **FUSILADE® II TURF AND ORNAMENTAL HERBICIDE**

Product No.: A12460A

Use: Herbicide

Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

**Emergency Phone: 1-800-888-8372**

### 2. HAZARDS IDENTIFICATION

Classifications: Skin Sensitizer: Category 1B  
Carcinogenicity: Category 2  
Reproductive Toxicity: Category 2  
Aspiration Hazard: Category 1  
Inhalation: Category 2

Signal Word (OSHA): Danger

Hazard Statements: May be fatal if swallowed and enters airways  
May cause an allergic skin reaction  
Fatal if inhaled  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child

Hazard Symbols:



Precautionary Statements: Do not breathe mist, vapors, spray.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
In case of inadequate ventilation wear respiratory protection. See Section 8 Exposure Control/Personal Protection.  
If on skin: Wash with plenty of soap and water.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a poison center, doctor or Syngenta.  
Specific treatment is urgent (see Section 4 First Aid Measures).

**FUSILADE® II TURF AND ORNAMENTAL HERBICIDE**

Date: 6/24/2016  
 Replaces: 6/9/2016

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.  
 Contains petroleum distillate - vomiting may cause aspiration pneumonia.

**5. FIRE FIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media:  
 Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:  
 During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:  
 Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment, and emergency procedures:  
 Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:  
 Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

**7. HANDLING AND STORAGE**

Precautions for safe handling:  
 Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:  
 Store locked up.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.**  
**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Occupational Exposure Limits:

| Chemical Name                           | OSHA PEL        | ACGIH TLV       | Other                | Source         |
|---|-----------------|-----------------|----------------------|----------------|
| Petroleum distillates, light paraffinic | Not Established | Not Established | Not Established      | Not Applicable |
| Other ingredients                       | Not Established | Not Established | Not Established      | Not Applicable |
| Aromatic Solvent                        | Not Established | Not Established | 50 mg/m3 (8 ppm) TWA | Manufacturer   |

**FUSILADE® II TURF AND ORNAMENTAL HERBICIDE**

Date: 6/24/2016  
 Replaces: 6/9/2016

**10. STABILITY AND REACTIVITY**

Reactivity: Not reactive.  
 Chemical stability: Stable under normal use and storage conditions.  
 Possibility of hazardous reactions: Will not occur.  
 Conditions to Avoid: None known.  
 Incompatible materials: None known.  
 Hazardous Decomposition Products: None known.

**11. TOXICOLOGICAL INFORMATION**

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Rash, redness or itching

Delayed, immediate and chronic effects of exposure: Developmental toxicity, Possible carcinogenicity, Allergic skin reaction

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

|                     |   |                          |
|---------------------|---|--------------------------|
| Ingestion:          | Oral (LD50 Rat) :                         | > 5000 mg/kg body weight |
| Dermal:             | Dermal (LD50 Rabbit) :                    | > 2000 mg/kg body weight |
| Inhalation:         | Inhalation (LC50 Animal Not Available) :  | 0.54 mg/l air - 4 hours  |
| Eye Contact:        | Slightly Irritating (Rabbit)              |                          |
| Skin Contact:       | Moderately Irritating (Rabbit)            |                          |
| Skin Sensitization: | See "Other Toxicity Information", Sec. 11 |                          |

Reproductive/Developmental Effects

Fluazifop-P-Butyl : Embryo/foetoxic effects have been reported in rats. Did not show teratogenic effects in animal experiments.

Chronic/Subchronic Toxicity Studies

Fluazifop-P-Butyl : Effects on red cells, bone marrow, liver and spleen observed in long-term high dose feeding tests in dogs. No adverse health effects are expected in humans at airborne levels below the occupational exposure limit.

Carcinogenicity

Fluazifop-P-Butyl : Did not show mutagenic effects in animal experiments. Did not show carcinogenic effects in animal experiments.

| Chemical Name                           | NTP/IARC/OSHA Carcinogen |
|---|--------------------------|
| Petroleum distillates, light paraffinic | No                       |
| Other ingredients                       | No                       |

## FUSILADE® II TURF AND ORNAMENTAL HERBICIDE

Date: 6/24/2016  
Replaces: 6/9/2016

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### 14. TRANSPORT INFORMATION

#### DOT Classification

Ground Transport - NAFTA  
< 300 gallons: Not regulated  
> 300 gallons:  
Proper Shipping Name: Other Regulated Substances, Liquid, N.O.S. (RQ - Naphthalene)  
Hazard Class: Class 9  
Identification Number: NA 3082  
Packing Group: PG III

#### Comments

Water Transport - International  
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Fluazifop), Marine Pollutant  
Hazard Class: Class 9  
Identification Number: UN 3082  
Packing Group: PG III

#### Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Fluazifop)  
Hazard Class: Class 9  
Identification Number: UN 3082  
Packing Group: PG III

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### 15. REGULATORY INFORMATION

#### Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if absorbed through skin or inhaled. Causes eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

#### EPA Registration Number(s):

100-1084

#### EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard  
Chronic Health Hazard

Section 313 Toxic Chemicals: Aromatic Solvent <30.0% (CAS No. 64742-94-5)

#### California Proposition 65:

This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

#### CERCLA/SARA 304 Reportable Quantity (RQ):

Report product spills > 305 gal. (based on naphthalene [RQ = 100 lbs.] content in the formulation)

#### RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

#### TSCA Status:



**A Nonionic Low Foam Wetter/Spreader Adjuvant**

**\*ACTIVE INGREDIENTS:**

|  |               |
|--|---------------|
| Alkyl Aryl Polyoxylkane ethers, alkanolamides, dimethyl siloxane, and Free Fatty Acids ..... | 90.0%         |
| Components ineffective as adjuvant .....   | 10.0%         |
| <b>TOTAL .....</b>   | <b>100.0%</b> |

Surfactant Content: ..... 70.0%

\*All ingredients are accepted for use under CFR 40, 180.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

May be harmful if swallowed  
 May be harmful in contact with skin  
 May be harmful if inhaled  
 Causes serious eye irritation  
 Causes skin irritation



NET CONTENTS:  1 Gallon (3.785 Liters) SN 031115

- 2.5 Gallons (9.46 Liters)
- 30 Gallons (113.55 Liters)
- 55 Gallons (208.18 Liters)
- 250 Gallons (946.25 Liters)

**MANUFACTURED FOR**  
**HELENA CHEMICAL COMPANY**  
 225 SCHILLING BOULEVARD, SUITE 300  
 COLLIERVILLE, TN 38017  
 901-761-0050

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING**

**BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE, LIMITED WARRANTY, AND LIMITATIONS OF LIABILITY AND REMEDIES.**

May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. Causes serious eye irritation. Causes skin irritation. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present. Do not apply this product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Not for human or animal consumption.

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton
- Shoes plus socks
- Protective eyewear

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.

**FIRST AID**

|                      |  |
|----------------------|--|
| <b>IF IN EYES:</b>   | <ul style="list-style-type: none"> <li>• Rinse cautiously with water for several minutes.</li> <li>• Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                      |
| <b>IF SWALLOWED:</b> | <ul style="list-style-type: none"> <li>• Call a POISON CENTER or doctor immediately.</li> <li>• Rinse mouth. Do NOT induce vomiting.</li> <li>• Do not give anything by mouth to an unconscious person.</li> <li>• Immediately call a POISON CENTER or doctor.</li> </ul>        |
| <b>IF INHALED:</b>   | <ul style="list-style-type: none"> <li>• Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell.</li> <li>• If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if</li> </ul> |

**Disclaimer:** Always refer to the label on the product before using Helena or any other product.

|                            |   |
|----------------------------|---|
|                            | possible.<br><ul style="list-style-type: none"> <li>• Call a POISON CENTER or doctor for treatment advice.</li> </ul>   |
| <b>IF ON SKIN OR HAIR:</b> | <ul style="list-style-type: none"> <li>• Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>• Get medical attention if irritation develops or persists.</li> <li>• Wash contaminated clothing before reuse.</li> </ul> |

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.  
**STORAGE:** Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water sources by runoff from cleaning of equipment, disposal of cleaning equipment wash waters, or spray waste.

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading and add rinse water to spray tank. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at [www.acrcycle.org](http://www.acrcycle.org). Decontaminated containers may also be disposed of in a sanitary landfill.

For help in chemical emergencies involving spill, leak, fire or exposure, call toll free 1-800-424-9300.

**GENERAL INFORMATION**

INDUCE® is a blend of nonionic surfactants, deposition agents, humectants, and defoamers. INDUCE® incorporates the properties of a wetter/spreader surfactant when used in spray mixtures. INDUCE® is designed to quickly wet and spread a more uniform spray deposit over leaf and stem surfaces and improve spray mix deposition. INDUCE® can positively affect pesticide spray application and pesticide efficacy. INDUCE® is recommended for use with those pesticides whose label recommends a non-ionic wetter/spreader-type adjuvant.

**DIRECTIONS FOR USE**

**FOR USE WITH PRODUCTS REGISTERED FOR: AGRICULTURAL, AQUATIC, FORESTRY, INDUSTRIAL, MUNICIPAL, NON-CROPLAND, ORNAMENTAL, RIGHTS-OF-WAY, TURF AND OTHER USES.**

The addition of an adjuvant to some pesticides or pesticide tank mix combinations may cause phytotoxicity to the foliage and/or fruit of susceptible crops. Prior to the addition of INDUCE® to spray tank mixes, the user or application advisor must have experience with the combination or must have conducted a phytotoxicity trial or must take the recommendations from the labels of the products to be tank mixed. INDUCE® may be applied by Ground, CDA, Aerial, or Aquatic spray equipment. For most applications, use enough INDUCE® to allow for uniform wetting and deposition of the spray onto leaf surfaces without undue runoff.

**Ground, Aerial, CDA:** Use 1-4 pints per 100 gallons of spray or 0.125-0.50% by volume.

**Aquatic:** Use 1-4 pints per 100 gallons of spray or 0.125-0.50% by volume.

\*Note: The above use recommendations are considered to be adequate for most uses. Some pesticides however, may require higher or lower rates for optimum effect. Follow the pesticide(s) label(s) directions when this occurs.

For improved water penetration of hard-to-wet soils and the uniform distribution of applied moisture:

**Lawns and Turf:** Use INDUCE® at .50% v/v concentration.

**Greens and Tees:** Use INDUCE® at .125-.25% v/v concentration.

**Deep Feeding Trees:** Use INDUCE® at .25-.50% v/v concentration.

Application of INDUCE® through irrigation systems are possible provided that recommended use rates and dilutions are maintained and local, state, and federal guidelines are followed.

**MIXING**

Prior to any pesticide application all spray mixing and application equipment must be cleaned. Carefully observe all cleaning directions of the pesticide(s) label(s). Fill spray tank one-half full with water and begin agitation. Add pesticides as directed by labeling or in the following sequence:

1. Dry flowables or water dispersible granules.
2. Wettable powders
3. Flowables
4. Solutions
5. Emulsifiable concentrates



# Safety Data Sheet

Report Date 04-Aug-15

Page 1 of 4

## 1. Identification

**Product Name** : INDUCE  
**Synonyms** : None  
**Product Use** : Nonionic Low Foam Wetter/Spreader Adjuvant  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Warning  
**Skin Irritation** : Moderately irritating  
**Eye Irritation** : Severely irritating in non-washed eye (35.8); moderately irritating in washed eye (16.3); Injury was reversible.  
**Acute Toxicity Oral** : LD50 >4,000 mg/kg (rat)  
**Acute Toxicity Dermal** : LD50 >2,000 mg/kg (rat)  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 2A; Skin Irritation - 2  
**Hazard Statement** : May be harmful if swallowed  
May be harmful in contact with skin  
Causes serious eye irritation  
Causes skin irritation  
May be harmful if inhaled

## 3. Composition / Information on Ingredients

| Component  | CAS Number   | Weight % |
|--|--------------|----------|
| Alkyl Aryl Polyoxyalkane ethers, alkanolamides, dimethyl siloxane, and free fatty acids. | Proprietary  | 90.00    |
| Components ineffective as adjuvant.  | Nonhazardous | 10.00    |

## 4. First Aid Measures

**Eye** : Immediately flush eyes with water for at least 15 minutes. See a physician.  
**Skin** : Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.  
**Inhalation** : Move victim to fresh air. Give artificial respiration if needed. See a physician.  
**Ingestion** : Give a large amount of water to drink, induce vomiting and immediately call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.  
**Indication of Immediate Medical Attention and Special Treatment Needed** : If contact is made with the spray solution containing pesticides, refer to the "Statement of Practical Treatment/First Aid" on the pesticide label(s). Otherwise, treat symptomatically.

## 5. Fire Fighting Measures

**Extinguishing Media** : Use dry chemical, water spray, water fog, carbon dioxide, foam, or sand/earth.



## Safety Data Sheet

Report Date 04-Aug-15

Page 3 of 4

### 10. Stability and Reactivity

- Reactivity : No information found
- Chemical Stability : Stable
- Hazardous Decomposition Products : Carbon monoxide and carbon dioxide under fire conditions.
- Hazardous Polymerization : Will not occur
- Conditions to Avoid : Excessive heat and open flames.
- Incompatible Materials : Do not mix with strong oxidizers such as hydrogen peroxide, bromine and chromic acid.

### 11. Toxicological Information

- Acute Toxicity (Oral LD50) : >4,000 mg/kg (rat)
- Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rat)
- Acute Toxicity Inhalation LC50 : 2.02 mg/L (vapor limit)
- Likely Routes of Exposure : Eyes, skin.
- Skin Irritation : Moderately irritating.
- Eye Irritation : Severely irritating in non-washed eyes (35.8), moderately irritating in washed eyes (16.3). Injury was reversible.
- Skin Sensitization : Not listed as a sensitizer.
- Carcinogenic : Not listed by IARC, NTP or OSHA.
- Chronic Effects : None currently known.
- Other Hazards : May contain components which, in laboratory tests, have been toxic to the fetus only at doses toxic to the mother.

### 12. Ecological Information

- Ecotoxicity : No information found
- Persistence and Degradability : No information found
- Bioaccumulative Potential : No information found
- Mobility in Soil : No information found
- Other Adverse Effects : Contains Alcohol C-12-C-16 Poly (1-6) Ethoxylate - a marine pollutant.

### 13. Disposal Considerations

- Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information

- UN Proper Shipping Name : Not regulated by DOT in non-bulk packages. Regulated in bulk or if shipped by air (IATA) or vessel (IMDG) as Environmentally Hazardous Substance, Liquid, n.o.s., (Alcohol C12-C16 Poly (1-6) Ethoxylate)
- Transport Hazard Class : Class 9 (bulk/IATA/IMDG)
- UN Identification Number : 3082(bulk/IATA/IMDG)
- Packaging Group : PG III (bulk/IATA/IMDG)
- Environmental Hazards : Marine Pollutant
- Transport in Bulk : Marine Pollutant
- Special Precautions for Transportation : No information found