



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:
62719-580

Date of Issuance:
NOV 15 2010

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance: conditional

Name of Pesticide Product:
FN-3133 Specialty Herbicide

Name and Address of Registrant (include ZIP Code):

Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

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

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

This product is conditionally registered in accordance with FIFRA provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revisions:
 - a. Add the following ground water and surface water advisory statements to the Environmental Hazards section of the label:

Ground Water Advisory:

"This pesticide has properties and characteristics associated with chemicals detected in ground water. 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 pesticide 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 a high potential for reaching surface water via runoff for several months or more after application."

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Signature of Approving Official:

Kathryn V. Montague
Project Manager 23
Herbicide Branch
Registration Division (7505P)

Date:

NOV 15 2010

b. Add the following spray drift management text:

"Spray Drift Management:

Spray equipment and weather affect spray drift. Consider all factors when making application decisions. Where states have more stringent regulations, they must be observed. Avoiding spray drift is the responsibility of the applicator or grower. To reduce the potential for drift, the application equipment must be set to apply medium to course droplets (i.e., ASAE Standard 572) with corresponding spray pressure. Use high flow rate nozzles to apply the highest practical spray volume. With most nozzle types, narrower spray angles produce larger droplets. Follow the nozzle manufacturer's directions on pressure, orientation, spray volume, etc., in order to minimize drift and optimize coverage and control.

Wind:

Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and non-target plants are growing. Do not spray near sensitive plants if wind is gusty, below 2 mph, or in excess of 10 mph and moving in the direction of adjacent areas of sensitive areas. Local terrain may influence wind patterns; the applicator must be familiar with local conditions and understand how they may impact spray drift.

Sensitive Areas:

Sensitive areas to this product are defined as bodies of water (ponds, lakes, rivers, streams, and ditches), wetlands, habitats of endangered species, and non-labelled agricultural crop areas. Applicators must take all precautions necessary to keep spray drift from reaching these areas.

Temperature Inversion:

A surface temperature inversion (i.e., increasing temperature with increasing altitude) greatly increases the potential for drift. Presence of ground fog is a good indicator of a surface temperature inversion. Do not apply during temperature inversions. Always make applications when there is some air movement to determine the direction and distance of possible spray drift.

Boom Height:

Set the boom and make applications at the lowest height that safely permits uniform coverage of the soil and minimizes droplet evaporation. Boom or nozzle shielding can reduce the effects of wind or air currents on drift. Verify that the shields do not interfere with uniform deposition of product prior to application."

c. Add the following application restriction to the Directions for Use:

"Do Not Apply by Air"

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EPA Reg. No. 62719-580
Notice of Registration

- d. Add the text, “(as listed in the Directions for Use section of this label)” after the product description, “A preemergence herbicide for control of certain broadleaf weeds in fruit and nut trees and vineyards” found below the product name on pages 1 and 4 of the labeling.
- e. Add the word, “exist” after “washables” in the User Safety Requirements section so that it reads:
“Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.”
- f. Remove the word “General” from the heading, “General Use Precautions and Restrictions.” The word “General” is an implied safety claim that makes all associated text unenforceable.
In addition, revise “General Information” to “Product Information.”
- g. Revise the ‘Tank Mix’ section text, “No label dosage rates should be exceeded.” with: “Do not exceed any label dosage rates.”
- h. Add the word “Product” before “Application Rate Reference Chart” on page 9 of the label. The label currently leaves room for possible over-application by not specifying whether “1.33 lb per acre” is 1.33 lbs. product per acre or 1.33 lbs. active ingredient per acre. Since risk assessments were conducted with a maximum of 1.0 lb. ai per acre, the “1.33 lb. per acre” must be revised to “1.33 lbs of product (1.0 lb ai) per acre.”

In addition, add the word, “product” after “lb” in each of the section headings for the various weed listings that are controlled or suppressed at different rates (see pgs 9-11).

- i. In the ‘Specific Use Restrictions’ on page 12, revise, “Do not apply FN-3133 more than twice per crop year (harvest to harvest) up to a maximum total of 1.33 lb of FN-3133 per crop year” to the following:

“Do not apply FN-3133 more than twice per crop year (harvest to harvest) up to a maximum total of 1.33 lb of FN-3133 **(1.0 lb. isoxaben) per acre** per crop year.”

- j. To the ‘Warranty Disclaimer’ and ‘Limitation of Remedies’ sections on page 13, add, “To the extent consistent with applicable law” before the following sentences:
 - a) “Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.”
 - b) “Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product...”

In addition, revise “To the extent permitted by law” with “To the extent consistent with applicable law” in the first sentence of the ‘Limitation of Remedies’ section.

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3. Submit one (1) copy of the revised final printed label for the record.

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

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(Base label):

FN-3133

Specialty Herbicide

A preemergence herbicide for control of certain broadleaf weeds in fruit and nut trees and vineyards

Not for sale, distribution or use in New York State

Active Ingredient:

| | |
|--|------|
| isoxaben: N-[3-(1-ethyl-1-methylpropyl)-5-isoxazolyl]-2,6-dimethoxybenzamide and isomers | 75% |
| Other Ingredients | 25% |
| Total | 100% |

Contains 0.75 lb active ingredient per pound.
U.S. Patent Nos. 5,086,184 and 4,636,243

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

NOV 15 2010
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

62719-580

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation • Harmful If Inhaled Or Absorbed Through Skin

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

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift may result in reduced germination or emergence of non-target plants adjacent to treated area. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

(Storage and Disposal for rigid containers 5 gal or less)

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container. Do not store in direct sunlight. Do not store at temperatures above 120°F. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for nonrigid containers any size)

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container. Do not store in direct sunlight. Do not store at temperatures above 120°F. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for refillable rigid containers greater than 5 gal)

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container. Do not store in direct sunlight. Do not store at

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temperatures above 120°F. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: 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 refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two 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 allowed by state and local authorities.

(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container. Do not store in direct sunlight. Do not store at temperatures above 120°F. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-LIN

EPA Est. _____

Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

Net Weight __

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(Label booklet cover)

FN-3133

Specialty Herbicide

A preemergence herbicide for control of certain broadleaf weeds in fruit and nut trees and vineyards

Not for sale, distribution or use in New York State

Active Ingredient:

| | |
|--|------|
| isoxaben: N-[3-(1-ethyl-1-methylpropyl)-5-isoxazoly]-2,6-dimethoxybenzamide and isomers | 75% |
| Other Ingredients | 25% |
| Total | 100% |

Contains 0.75 lb active ingredient per pound.
U.S. Patent Nos. 5,086,184 and 4,636,243

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to inside of label booklet for additional precautionary information including Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-LIN-580

EPA Est. _____

Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

Net Weight __

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[Page 1 through end]]

Precautionary Statements

Hazards to Humans and Domestic Animals**CAUTION****Causes Moderate Eye Irritation • Harmful If Inhaled Or Absorbed Through Skin****Avoid breathing dust or spray mist and contact with skin, eyes, or clothing.****Personal Protective Equipment (PPE)****Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift may result in reduced germination or emergence of non-target plants adjacent to treated area. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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.

Agricultural Use Requirements

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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, restricted-entry interval, and notification to workers (as applicable). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

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

Non-Agricultural Use Requirements

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

Entry Restrictions for Non-WPS Uses: Do not allow entry into treated areas until sprays have dried.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container. Do not store in direct sunlight. Do not store at temperatures above 120°F. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Nonrefillable rigid containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable nonrigid containers:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable rigid containers larger than 5 gal:

Container Handling: 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 refiller. To clean the container before final disposal,

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empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two 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 allowed by state and local authorities.

Nonrefillable rigid containers larger than 5 gal:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

General Information

FN-3133 specialty herbicide is a preemergence product for control of certain broadleaf weeds in fruit and nut trees and vineyards. Apply FN-3133 before germination of target weeds, or immediately after cultivation. FN-3133 does not control established weeds, or weeds growing from stolons, rhizomes, or root pieces. Existing weeds should be controlled by cultivation or with postemergence herbicides.

Optimum weed control performance will be obtained when an application is followed by overhead irrigation or rainfall within 21 days. A single rainfall or sprinkler irrigation of 0.5 inch or more is required to activate this product.

General Use Precautions and Restrictions

- Not for sale, distribution or use in New York State.
- Do not apply FN-3133 to container grown plants.
- **Chemigation:** Do not apply FN-3133 through any type of irrigation system.
- Do not apply FN-3133 to newly transplanted non-bearing fruit and nut trees or non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or plant injury may occur.
- Applications of FN-3133 over the top of plants with newly forming buds may cause injury. Possible plant injury may be avoided by applying as a directed spray to the soil surface beneath ornamental plants.
- When planting into a site treated with FN-3133 in the previous 8 months, use untreated soil as fill around roots when replacing plants or injury may occur.
- Do not apply sprays containing glyphosate or other postemergence herbicides over the top of plants.
- Extreme care must be taken to prevent contact of sprays containing glyphosate and other postemergence herbicides with foliage or stems of turfgrass, trees, shrubs, or other desirable vegetation since severe damage or death may result.
- If spraying glyphosate or other postemergence herbicides in areas adjacent to desirable plants, use a shield to prevent spray from contacting foliage or stems of desirable plants.
- To avoid possible plant injury, do not apply FN-3133 to:
 - Christmas tree: seedling beds, cutting beds, or transplant beds

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- unrooted liners or cuttings that have been planted in pots for the first time
- pots less than six inches wide

Mixing Directions

Vigorous, continuous agitation is required for all dry flowables. Sparger pipe agitation generally provides the best agitation. Nozzle screens should be no finer than 50 mesh (50 mesh is finer than 16 mesh). The sprayer in-line strainer should be no finer than 16 mesh. Be sure sprayer tank is clean and not contaminated with any material as plant injury or sprayer clogging may result. The agitators must be positioned to create a rippling or rolling action on the liquid surface and to provide complete agitation at the bottom of the tank, preventing dead spots where the material can accumulate. Use a pump with the capacity to provide sufficient agitation in the tank to keep mixture in suspension and to provide the agitator 20% bypass at all times. A centrifugal pump is suggested to provide additional propeller shear action for dispersing and mixing this product. To prevent foaming, avoid stirring or splashing air into the mixture by placing the end of the fill pipe below the surface of the water in the spray tank during the filling process.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16 mesh or coarser. Use 50 mesh or coarser screens between the pump and boom and when required at the nozzles. Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue in the case of tank mixes. If an oil or emulsifiable concentrate film starts to build up in the tank, drain and clean with strong detergent solution. Clean sprayer tank, lines and screens thoroughly by flushing system with water containing a detergent, then refill with clean water.

FN-3133 – Alone

Fill tank with clean water to 1/2 of the required spray volume. Start agitation and add the required amount of FN-3133. Controlled addition of the product is important to assure adequate wetting and mixing to prevent clogging of screens and outlet ports. Continue agitation while mixing, filling tank with water until full, and throughout application.

FN-3133 - Tank Mix

FN-3133 may be tank mixed with labeled rates of glyphosate or other postemergence herbicides registered for control of existing unwanted vegetation in ornamental plantings and to provide residual preemergence broadleaf weed control. FN-3133 may also be tank mixed with other herbicides and applied preemergence to provide broad-spectrum control of annual grasses and broadleaf weeds in ornamental areas. Use the tank mix in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

When tank mixing FN-3133 with other materials, a compatibility (jar test) using relative proportions of the tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. Use a clear glass quart jar with lid and mix the tank mix ingredients in the required order and their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Mixing Order for Tank Mixes: Add FN-3133 to the spray tank as described above and fill the spray tank to 3/4 of the required spray volume. Start agitation and add different formulation types in the order indicated below, allowing two to three minutes for complete dispersion and mixing after addition of each product.

1. Other dry flowables
2. Wettable powders
3. Aqueous suspensions
4. Flowables

- 5. Liquids
- 6. Solutions
- 7. Emulsifiable or liquid concentrates

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. Follow label directions for each material added to the tank.

When using FN-3133 alone or in a tank mix, if spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger is particularly useful for this purpose.

Application Instructions

Apply FN-3133 using a low-pressure herbicide sprayer that provides uniform spray distribution. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing spray uniformly. Do not use sprayers that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or plant injury may occur. Avoid spray drift when applying FN-3133. Drift may result in reduced germination or emergence of non-target plants adjacent to the treated area.

Successful preemergence control of the broadleaf weeds listed on this label requires proper timing of application. Apply FN-3133 in 10 gallons or more of water carrier per acre using any properly calibrated spray unit. If application timing does not coincide with the normal germination period of any of the weeds listed on this label, weed control results may be erratic or poor.

FN-3133 controls weeds growing from seed. Weed residues, prunings, and other crop debris should be removed or thoroughly mixed into soil prior to treatment. Soil in non-turf areas should be in good condition and free of clods at the time of application. FN-3133 is stable on the soil surface for up to 21 days, but must be incorporated by moisture to be effective. If FN-3133 is not activated by rainfall or irrigation within 21 days after application, erratic weed control may result. In non-turf areas, if weeds emerge due to lack of rainfall or irrigation, shallow cultivation to a depth of 1 to 2 inches will incorporate the herbicide and destroy existing weeds.

Application Rate Reference Chart

| lb per acre | oz per 1000 sq ft | grams per 1000 sq ft |
|-------------|-------------------|----------------------|
| 0.66 | 0.25 | 7 |
| 1 | 0.38 | 10 |
| 1.33 | 0.5 | 14 |

Weeds Controlled or Suppressed

Weeds controlled when applied at 0.66 lb per acre (0.25 oz or 7 grams per 1000 sq ft)

| Common Name | Scientific Name |
|-----------------------|------------------------------|
| aster, slender | <i>Aster exilis</i> |
| bursage, annual | <i>Ambrosia acanthicarpa</i> |
| burweed, lawn | <i>Soliva pterosperma</i> |
| celery, wild | <i>Apium leptophyllum</i> |
| chickweed, common | <i>Stellaria media</i> |
| clover, white | <i>Trifolium repens</i> |
| cudweed, purple | <i>Gnaphalium purpureum</i> |
| fiddleneck, coast | <i>Amsinckia intermedia</i> |
| filaree, redstem | <i>Erodium cicutarium</i> |
| fleabane, blackleaved | <i>Conyza bonariensis</i> |
| fleabane, dwarf | <i>Conyza ramosissima</i> |

| | |
|-------------------------|----------------------------------|
| groundcherry, lanceleaf | <i>Physalis lanceifolia</i> |
| henbit | <i>Lamium amplexicaule</i> |
| horseweed | <i>Conyza canadensis</i> |
| knotweed, prostrate | <i>Polygonum aviculare</i> |
| lambsquarters, common | <i>Chenopodium album</i> |
| mallow, little | <i>Malva parviflora</i> |
| mustard, Indian | <i>Brassica juncea</i> |
| mustard, wild | <i>Sinapis arvensis</i> |
| nightshade, black | <i>Solanum nigrum</i> |
| pepperweed, Virginia | <i>Lepidium virginicum</i> |
| pigweed | <i>Amaranthus</i> spp. |
| pineappleweed | <i>Matricaria matricarioides</i> |
| plantain, slender | <i>Plantago elongata</i> |
| purslane, common | <i>Portulaca oleracea</i> |
| radish, wild | <i>Raphanus raphanistrum</i> |
| ragweed, common | <i>Ambrosia artemisiifolia</i> |
| rocket, London | <i>Sisymbrium irio</i> |
| rockpurslane, desert | <i>Calandrinia ciliata</i> |
| shepherdspurse | <i>Capsella bursa-pastoris</i> |
| sibara | <i>Sibara virginica</i> |
| smartweed, Pennsylvania | <i>Polygonum pennsylvanicum</i> |
| sowthistle, annual | <i>Sonchus oleraceus</i> |
| speedwell, purslane | <i>Veronica peregrina</i> |
| telegraphplant | <i>Heterotheca grandiflora</i> |
| thistle, Russian | <i>Salsola iberica</i> |

Weeds controlled when applied at 1 lb per acre (0.38 oz or 10.5 grams per 1000 sq ft)

| Common Name | Scientific Name |
|-------------------------|--|
| aster, heath | <i>Aster ericoides</i> |
| bittercress | <i>Cardamine oligosperma</i> |
| bittercress, hairy | <i>Cardamine hirsuta</i> |
| brassbuttons, southern | <i>Cotula australis</i> |
| carrot, wild | <i>Daucus carota</i> |
| chamberbitter | <i>Phyllanthus urinaria</i> |
| chickweed, mouseear | <i>Cerastium vulgatum</i> |
| dandelion | <i>Taraxacum officinale</i> |
| eclipta | <i>Eclipta prostrata</i> |
| galinsoga, hairy | <i>Galinsoga ciliata</i> |
| geranium, Carolina | <i>Geranium carolinianum</i> |
| ladysthumb | <i>Polygonum persicaria</i> |
| lettuce, prickly | <i>Lactuca serriola</i> |
| mallow, dwarf | <i>Malva rotundifolia</i> |
| marestail | <i>Conyza canadensis</i> |
| mayweed | <i>Anthemis cotula</i> |
| morningglory, ivyleaf | <i>Ipomoea hederacea</i> |
| mustard, black | <i>Brassica nigra</i> |
| pennywort | <i>Hydrocotyle</i> spp. |
| phyllanthus, long-stalk | <i>Phyllanthus tenellus</i> |
| plantain, bracted | <i>Plantago aristata</i> |
| plantain, broadleaf | <i>Plantago major</i> |
| plantain, buckhorn | <i>Plantago lanceolata</i> |
| pokeweed, common | <i>Phytolacca americana</i> |
| rockpurslane, redmaids | <i>Calandrinia ciliata</i> var. <i>menziesii</i> |
| sida, prickly | <i>Sida spinosa</i> |
| sorrell, red | <i>Rumex acetosella</i> |

| | |
|----------------------|--|
| speedwell, thymeleaf | <i>Veronica serpyllifolia</i> |
| spurge, hyssop | <i>Euphorbia hyssopifolia</i> |
| spurge, spotted | <i>Euphorbia maculata</i> |
| sweetclover, yellow | <i>Melilotus officinalis</i> |
| tansymustard, green | <i>Descurainia pinnata</i> spp. <i>brachycarpa</i> |
| woodsorrel, yellow | <i>Oxalis stricta</i> |

Weeds controlled when applied at 1.33 lb per acre (0.5 oz or 14 grams per 1000 sq ft)

| Common Name | Scientific Name |
|------------------------|---------------------------------|
| burclover, California | <i>Medicago polymorpha</i> |
| dogfennel | <i>Eupatorium capillifolium</i> |
| eveningprimrose | <i>Oenothera</i> spp. |
| fescue, rattail | <i>Vulpia myuros</i> |
| filaree, whitestem | <i>Erodium moschatum</i> |
| goosefoot, nettleleaf | <i>Chenopodium murale</i> |
| groundsel, common | <i>Senecio vulgaris</i> |
| jimsonweed | <i>Datura stramonium</i> |
| knotweed, silversheath | <i>Polygonum argyrocoleon</i> |
| kochia | <i>Kochia scoparia</i> |
| medic, black | <i>Medicago lupulina</i> |
| mullein, turkey | <i>Eremocarpus setigerus</i> |
| nettle, burning | <i>Urtica urens</i> |
| ox tongue, bristly | <i>Picris echioides</i> |
| pimpernel, scarlet | <i>Anagallis arvensis</i> |
| sowthistle, spiny | <i>Sonchus asper</i> |
| spurge, petty | <i>Euphorbia pepus</i> |
| spurge, prostrate | <i>Euphorbia humistrata</i> |
| sunflower | <i>Helianthus</i> spp. |
| swinecress | <i>Coronopus didymus</i> |
| thistle, musk | <i>Carduus nutans</i> |
| willoweed, panicle | <i>Epilobium paniculatum</i> |
| woodsorrel, creeping | <i>Oxalis corniculata</i> |

Weeds partially controlled or suppressed when applied at 1.33 lb per acre (0.5 oz or 14 grams per 1000 sq ft)

| Common Name | Scientific Name |
|---------------------|-----------------------------|
| bindweed, field | <i>Convolvulus arvensis</i> |
| carpetweed | <i>Mollugo verticillata</i> |
| dock, curly | <i>Rumex crispus</i> |
| mallow, Venice | <i>Hibiscus trionum</i> |
| milkweed, honeyvine | <i>Ampelamus albidus</i> |
| morningglory, tall | <i>Ipomoea purpurea</i> |
| pusley, Florida | <i>Richardia scabra</i> |

Uses

Non-Bearing Fruit and Nut Trees and Non-Bearing Vineyards

Use FN-3133 as a preemergence treatment for control of certain broadleaf weeds in non-bearing fruit and nut trees and non-bearing vineyards. Non-bearing fruit and nut trees and non-bearing vineyards are plants that will not bear fruit for at least one year after treatment. Apply FN-3133 any time prior to germination of target weeds or immediately after cultivation.

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FN-3133 may be used on the following field grown established non-bearing fruit and nut trees and non-bearing vineyards:

| | |
|-----------------|-----------------|
| almond | kiwi |
| apple | lemon |
| apricot | loganberry |
| avocado | macadamia nut |
| blackberry | nectarine |
| blueberry | olive |
| boysenberry | orange |
| cherry, sour | peach |
| cherry, sweet | pear |
| currant | pecan |
| dewberry | pistachio |
| elderberry | plum |
| fig | pomegranate |
| filbert | prune |
| gooseberry | raspberry |
| grape, American | walnut, black |
| grape, European | walnut, English |
| grapefruit | |

Bearing Nut Trees and Bearing Vineyards

Use FN-3133 as a preemergence treatment for control of certain broadleaf weeds in bearing nut trees and bearing grape vineyards. Apply FN-3133 before prior to germination of target weeds or immediately after cultivation.

FN-3133 may be used on the following field grown, established bearing nut trees and bearing grape vineyards:

| | |
|------------|---------------------------------------|
| almond | filbert (hazelnut) |
| beech nut | grape (American, European, muscadine) |
| Brazil nut | hickory nut |
| butternut | macadamia nut (bush nut) |
| cashew | pecan |
| chestnut | pistachio |
| chinquapin | walnut (black, English/Persian) |

Specific Use Restrictions:

- **Preharvest Interval:**
 - **Tree Nuts:** Do not apply FN-3133 within 60 days of harvest.
 - **Grape Vineyards:** Do not apply FN-3133 within 165 days of harvest.
- Do not apply FN-3133 more than twice per crop year (harvest to harvest) up to a maximum total of 1.33 lb of FN-3133 per crop year.

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