

71711-25

01-10-2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Marie A Maks
Nichino America.
4550 New Linden Hill Road - Suite 501
Wilmington, DE 19808

JAN 10 2011

Dear Ms. Maks:

Subject: Revised Labeling
ET 2%SC Herbicide/Defoliant
EPA File Symbol 71711-25
Your Submission Dated October 11, 2010

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. For clarity in the Rotational Crop Restrictions Table modify the last row to read similar to the following:

All other rotational crops do not plant for 30 days following the last application of this product.

b. On page 14 in the Directions for Use add "and triticale" after "wheat" wherever it appears in the column.

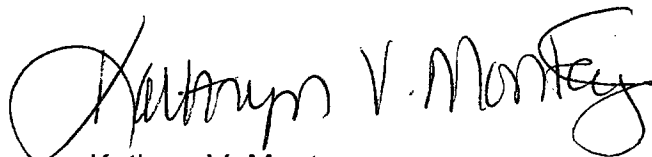
c. On page 17 in the Directions for Use clarify the restriction to read similar to the following:

Do not make more than 3 applications or exceed 13.6 fl. oz /acre per year.

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

If you have any questions concerning this letter, please contact Mr. James Stone at 703-305-7391.

Sincerely yours,



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

Enclosure

ET[®] 2%SC Herbicide/Defoliant

A Nonselective Contact Herbicide for Broadleaf Weed Control

Alternate Brand Name: EDICT[®] 2%SC IVM Herbicide
EDICT[®] 2SC IVM Herbicide
For Noncrop Weed Control and Industrial Vegetation Management

Venue[®] Herbicide
A Nonselective Contact Herbicide for Tree, Nut, and Vine Crops

Octane[®] 2%SC Herbicide
Octane[®] Herbicide
For Use in Nurseries and Ornamental Plantings; Sodfarms;
Christmas Trees; and Established Ornamental Turf

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

JAN 10 2011
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

Active Ingredient:

Pyraflufen ethyl: ethyl 2-chloro-5-(4-chloro-5-difluoromethoxy-1-
methyl-1H-pyrazol-3-yl)-4-fluorophenoxyacetate **2.0%**

Other Ingredients: **98.0%**

Total: **100.0%**

71711-25

Contains 0.177 lb. pyraflufen ethyl per gallon (20 grams per liter)

EPA Reg. No. 71711-25

EPA Est. No. 37429-GA-1

KEEP OUT OF REACH OF CHILDREN CAUTION

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.

HOTLINE 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 1-800-348-5832 for emergency medical treatment information. In case of fire or spills, information may be obtained by calling 1-800-424-9300.

Net Contents: _____

Active Ingredient Made in Japan; Formulated and Packaged in U.S.A. for
Nichino America, Inc.
4550 New Linden Hill Road, Suite 501
Wilmington, DE 19808

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (Selection Category A).

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves

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.

ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. This product may contaminate water through drift of spray in wind or via runoff events. Use care when applying in areas adjacent to any body of water. Do not apply directly to water, 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 washwater or rinsate. Do not apply when weather conditions favor drift from treated areas.

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.

AGRICULTURAL USE REQUIREMENTS

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

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

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

- Coveralls
- Chemical resistant gloves
- Shoes plus socks

NONAGRICULTURAL 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, or greenhouses. For other uses, including interiorscapes and other nonagricultural uses, do not enter treated areas without protective clothing until sprays have dried.

USE INFORMATION

ET 2%SC IVM HERBICIDE is designed for use as a contact herbicide for broadleaf weed control.

For best results, use ET 2%SC IVM HERBICIDE for control of annual or perennial herbaceous broadleaf weeds less than 4 inches in height, or rosettes less than 3 inches in diameter. Use the higher rates and spray volumes for control of larger weeds; control may be reduced with weeds larger than 4 inches.

ET 2%SC IVM HERBICIDE must be tank mixed with another foliar active broadleaf herbicide for complete control of most broadleaf weeds.

Use an approved agriculture buffering agent, buffering to less than pH 7.5, if using ET 2%SC IVM HERBICIDE in a water source greater than or equal to pH 7.5. Always buffer the water source BEFORE adding ET 2%SC IVM HERBICIDE to the spray tank.

ET 2%SC IVM HERBICIDE is a contact herbicide and defoliant and requires thorough coverage for complete broadleaf weed control and defoliation/desiccation.

Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground unless otherwise specified.

Do not apply ET 2%SC IVM HERBICIDE through any type of irrigation system.

ET 2%SC IVM HERBICIDE is rainfast within one hour after application.

ROTATIONAL CROP RESTRICTIONS

Crop/Crop Group	Rotational/Plantback Intervals
Corn Cotton Potatoes Soybeans Wheat	0 days following application
Bulb Vegetables Cereal Grains Cole Crops Cucurbits Fruiting Vegetables Leafy Vegetables Legumes Oil Seeds Root and Tuber Vegetables Sugarcane	1 day following preplant burndown application
All other crops/crop groups	30 days following application

WEEDS CONTROLLED

The following broadleaf weed species can be controlled by applications of ET 2%SC IVM HERBICIDE in the manner described below at 3 to 6 inches tall. Tankmixes of ET 2%SC IVM HERBICIDE with other herbicides may be needed for control of larger weeds:

Amaranth, Palmer	Henbit	Ragweed, common
Bedstraw	Knotweed, prostrate	Ragweed, giant
Beggarweed, Florida	Kochia	Rocket, London
Beggartick, hairy	Ladysthumb	Sesbania, hemp
Bindweed, field	Lambsquarters, common	Shepherd's-purse
Buckwheat, wild	Lettuce, prickly	Sicklepod
Canola	Mallow, common	Smartweed, Pennsylvania
Carpetweed	Morningglory	Smellmelon
Celery, wild	Mustard, wild	Sowthistle, annual
Chickweed	Nettle, stinging	Spurge, leafy
Clover, white	Nightshade, black	Sunflower, common
Cocklebur	Pigweed, redroot	Thistle, Canada
Dandelion	Pigweed, smooth	Thistle, Russian
Dock, curly	Pineapple weed	Toadflax, Dalmatian
Dollarweed	Poinsettia, wild	Velvetleaf
Eclipta	Poison-ivy	Waterhemp, tall
Eveningprimrose, cutleaf	Purslane, common	
	Radish, wild	

MIXING DIRECTIONS

Add 1/2 to 3/4 of the required amount of water to the spray tank. Start agitation. Add the required amount of ET 2%SC IVM HERBICIDE and the remaining amount of water. Mix only as much spray solution as can be sprayed within four hours. Storage and use of the previous day's spray mix may result in reduced activity. Use an approved agricultural buffering agent buffering to pH 7.5 or less if using ET 2%SC IVM HERBICIDE in a water source of ≥ pH 7.5.

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TANK MIXTURES

ET 2%SC IVM HERBICIDE may be applied as a tankmix or in sequential application with other herbicide, fungicide, or insecticide products. Weather, crop conditions, or the presence of certain weeds, crop damaging insects, or diseases will indicate the inclusion of other pesticides in the application. Apply with grass herbicides if grassy weeds are present.

Tank mixtures of ET 2%SC IVM HERBICIDE with 2,4-D or glyphosate will provide enhanced control of the following weed species:

Tank Mixtures with ET 2%SC IVM HERBICIDE + 2, 4-D	Tank Mixtures with ET 2%SC IVM HERBICIDE + glyphosate	
Bindweed, field Buckwheat, wild Chickweed, common Clover, white Dandelion, common Kochia Marestail Poison-ivy Thistle, Russian Wild mustard	Dandelion, common Eveningprimrose, cutleaf Geranium, Carolina Horsenettle (suppression) Lambsquarters, common Morningglory Poison-ivy Purslane, common Radish, wild	Rocket, London Shepherd's-purse Sowthistle, annual Thistle, Canada Thistle, Russian Virginia-creeper

Note: It is recommended that the compatibility of ET 2%SC IVM HERBICIDE in any tankmix combination be tested before use. To determine the physical compatibility with other products, use a jar test, as described below:

Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Read and follow all label directions for each tankmix product. Always use in accordance with the most restrictive of label precautions and limitations.

SPRAY DRIFT

Avoid spray drift to all other crops and nontarget areas. Do not apply when weather conditions may cause drift. Do not allow this product to drift onto nontarget areas. Drift may result in illegal residues or injury to adjacent crops and vegetation, in the form of leaf yellowing and defoliation. To avoid spray drift, DO NOT apply aerially when wind speed is greater than 10 mph or during periods of temperature inversions. Use of larger droplet size will also reduce spray drift.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Droplet size, boom height, and wind speed are the primary factors determining drift. The specific application conditions required for the use of this product are described below.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions)

Controlling Droplet Size

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Maintenance of Nozzles – Periodic inspection and subsequent replacement of nozzles to ensure proper chemical application is recommended.

Boom Length

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light and variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

EQUIPMENT CLEANING

Do not allow the spray solution to dry in the application equipment. After application and before using the sprayer equipment for any other applications, the sprayer must be thoroughly cleaned. Applicators must ensure proper equipment clean-out for any other products mixed with ET 2%SC IVM HERBICIDE as provided on the other product label(s). Immediately following application, clean all equipment thoroughly with detergent or a spray tank cleaner and water as described below. Should residues of ET 2%SC IVM HERBICIDE remain in inadequately cleaned equipment, they may be released in subsequent applications and cause injury to crops.

1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse with clean water the inside of the spray tank, sprayer hoses, boom, and nozzles to remove any sediment or residues.
2. Fill the tank ½ full with clean water, add the appropriate detergent (follow manufacturer's directions for use). Fill tank to capacity and operate the sprayer with agitation for 15 minutes to flush hoses, boom, and nozzles.
3. Drain the sprayer tank, lines, and booms. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray nozzles, tips, and screens.
4. Dispose of all cleaning solutions, rinsate, and washwaters in accordance with Federal, state, and local regulations.

APPLICATION AND DOSAGE

Crop	Application	Pest	Rate/Acre	Directions for Use
Bulb Vegetables Cereal Grains Cole Crops Cucurbits Fruiting Vegetables Leafy Vegetables Legumes Oil Seed Crops Root and Tuber Vegetables Sugarcane	Preplant Burndown	Listed Broadleaf Weeds	0.7 to 2.4 fl oz/acre	<ul style="list-style-type: none"> ● Apply ET 2%SC IVM HERBICIDE in a minimum of 10 gallons spray solution per acre by ground or 5 gallons water per acre by air. ● Allow a minimum of 30 days between applications for this use. ● The addition of nonionic surfactant at a concentration of 0.25% or COC at 1.0% is recommended for optimum weed control. ● For crop listed in this section, do not apply within 24 hours of planting. ● Refer to page 4 for crop rotations/plantback restrictions. ● Do not make more than 3 applications or exceed 6.8 fl oz/acre per crop year. ● Use the higher rate for hard to control weeds such as field bindweed and kochia.

Crop	Application	Pest	Rate/Acre	Directions for Use
Corn (field corn, popcorn, seed corn, corn silage, corn stover)	Preplant Burndown	Listed Broadleaf Weeds	0.7 to 2.4 fl oz/acre	<ul style="list-style-type: none"> ● Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground. ● Do not apply more than 2.4 fl oz/acre for this use per season. ● The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. ● Refer to page 4 for crop

				rotations/plantback restrictions. ● Use the higher rate for hard to control weeds such as field bindweed and kochia. ● Allow a minimum of 30 days between applications for this use.
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Crop	Application	Pest	Rate/Acre	Directions for Use
Corn (field corn, popcorn, seed corn, corn silage, corn stover)	Postemergence	Listed Broadleaf Weeds	0.7 to 1.4 fl oz/acre	<ul style="list-style-type: none"> ● Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground. ● ET 2%SC IVM HERBICIDE can be applied from crop emergence to the V4 growth stage. ● Do not apply postemergence to sweet corn. ● Do not make more than 2 applications per season for this use. ● Do not apply more than 1.4 fl oz/acre for this use per season. ● Do not use crop oils or crop oil concentrates for postemergence applications. ● Use the higher rate for hard to control weeds such as field bindweed and kochia. ● Some temporary herbicidal leaf speckling may appear on the crop. This effect is transient and will NOT appear on new growth. ● Refer to page 4 for crop rotations/plantback restrictions. ● Allow a minimum of 30 days between applications for this use.

				<ul style="list-style-type: none"> • Do not harvest corn for silage within 50 days after last application of ET 2%SC IVM HERBICIDE. • Do not harvest corn for grain or stover within 90 days after last application of ET 2%SC IVM HERBICIDE.
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Crop	Application	Pest	Rate/Acre	Directions for Use
Cotton	Preplant Burndown, At Plant, Before Crop Emergence	Listed Broadleaf Weeds	0.7 to 2.4 fl oz/acre in tank mixtures with other herbicides	<ul style="list-style-type: none"> • Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground. • Do not apply more than 2.4 fl oz/acre for this use. • The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. • Refer to page 4 for crop rotations/plantback restrictions. • Use the higher rate for hard to control weeds such as field bindweed and kochia. • Allow a minimum of 30 days between applications for this use.
Cotton	Postemergence	Listed Broadleaf Weeds	0.7 to 2.4 fl oz/acre in tank mixtures with other herbicides	<ul style="list-style-type: none"> • Do not apply by air for this use. • Apply to cotton having less than 3 inches of stem bark using hooded ground equipment only. • Apply in 20 to 30 gallons per acre using hooded ground equipment. • Avoid contact with desirable vegetation. • Do not apply more than 2.4 fl oz/acre for this use. • Allow a minimum of 30 days between applications for this use. • Do not apply within 7 days of harvest. • Use the higher rate for hard to control weeds such as field bindweed and kochia.
			1.2 to 2.4 fl oz/acre alone	

Crop	Application	Pest	Rate/Acre	Directions for Use
Cotton	Postemergence Layby	Listed Broadleaf Weeds	0.7 to 1.2 fl oz/acre	<ul style="list-style-type: none"> ● Do not apply by air for this use. ● Apply when the cotton has attained an average height of 18 inches or more and having at least 3 inches of stem bark using hooded or postdirected ground spray equipment only. ● Avoid contact with desirable vegetation. ● Do not apply more than 1.2 fl oz/acre for this use. ● Allow a minimum of 30 days between applications for this use. ● Do not apply within 7 days of harvest. ● Use the higher rate for hard to control weeds such as field bindweed and kochia.

Crop	Application	Pest	Rate/Acre	Directions for Use
Cotton	Defoliation	Defoliation of Cotton	2.1 to 3.85 fl oz/acre	<ul style="list-style-type: none"> ● Apply when sufficient mature bolls have developed to produce desired yield; generally greater than 60%. ● Adequate defoliation is generally achieved within 7 to 14 day depending upon weather conditions. ● Apply using 20 to 30 gallons of water per acre by ground or 5 gallons of water per acre by air. ● Do not exceed 2 applications or 7.7 fl oz/acre for defoliation of cotton. ● Applications must be a minimum of 7 days apart. ● Do not apply within 7 days of harvest. ● ET 2%SC IVM HERBICIDE may be tank mixed or applied in sequence with other defoliant products such as,

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				<p>but not limited to, Cottonquik[®], Cyclone[®], DEF[®], Dropp[®], Finish[®], Folex[®], Ginstar[®], Gramoxone[®], Prep[™], and/or Roundup[®].</p> <ul style="list-style-type: none"> • Refer to page 4 for crop rotations/plantback restrictions.
Cotton (all uses)				<ul style="list-style-type: none"> • Do not apply more than 11.9 fl oz/acre per growing season to cotton.

Crop	Application	Pest	Rate/Acre	Directions for Use
Soybeans	Preplant Burndown	Listed Broadleaf Weeds	0.7 to 2.4 fl oz/acre	<ul style="list-style-type: none"> • Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground. • Do not apply more than 2.4 fl oz/acre for this use per season. • The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. • Refer to page 4 for crop rotations/plantback restrictions. • Use the higher rate for hard to control weeds such as field bindweed and kochia. • Allow a minimum of 30 days between applications for this use.

Crop	Application	Pest	Rate/Acre	Directions for Use
Soybeans	Postemergence	Listed Broadleaf Weeds	0.56 to 1.4 fl oz/acre	<ul style="list-style-type: none"> • Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground. • ET 2%SC IVM HERBICIDE can be applied

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				<p>from crop emergence to the V6 growth stage.</p> <ul style="list-style-type: none"> • Allow a minimum of 30 days between applications for this use. • Do not apply more than 1.4 fl oz/acre for this use per season. • Do not make more than 2 applications per season for this use. • Do not use crop oils or crop oil concentrates for postemergence applications. • Do not graze soybean forage or cut for hay within 7 days of last ET 2%SC IVM HERBICIDE applications. • Do not harvest soybeans for grain within 70 days after last application of ET 2%SC IVM HERBICIDE. • Some temporary herbicidal leaf speckling may appear on the crop. This effect is transient and will NOT appear on new growth. • Refer to page 4 for crop rotations/plantback restrictions. • Use the higher rate for hard to control weeds such as field bindweed and kochia.
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Crop	Application	Pest	Rate/Acre	Directions for Use
Wheat, triticale	Preplant Burndown	Listed Broadleaf Weeds	0.7 to 2.4 fl oz/acre	<ul style="list-style-type: none"> • Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground. • Do not apply more than 2.4 fl oz/acre for this use per season. • The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control.

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				<ul style="list-style-type: none"> • Refer to page 4 for crop rotations/plantback restrictions. • Use the higher rate for hard to control weeds such as field bindweed and kochia. • Allow a minimum of 30 days between applications for this use.
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Crop	Application	Pest	Rate/Acre	Directions for Use
Wheat, triticale	Postemergence	Listed Broadleaf Weeds	0.7 to 1.4 fl oz/acre	<ul style="list-style-type: none"> • ET 2%SC IVM HERBICIDE can be applied from crop emergence to the appearance of the flag leaf. DO NOT apply ET 2%SC IVM HERBICIDE if the flag leaf is visible. • Apply ET 2%SC IVM HERBICIDE in a minimum of 10 gallons spray solution per acre by ground. • Do not apply more than 2.0 fl oz/acre for this use per season. • Allow a minimum of 30 days between applications for this use. • Do not apply more than 2 applications per season. • Use nonionic surfactant at a concentration of 0.5% for optimum weed control. • Do not harvest wheat for hay within 21 days of last ET 2%SC IVM HERBICIDE applications. • Do not harvest wheat for grain within 60 days after last application of ET 2%SC IVM HERBICIDE. • Some temporary herbicidal leaf speckling may appear on the crop. This effect is transient and will NOT appear on new growth. • Refer to page 4 for crop rotations/plantback

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				restrictions. ● Use the higher rate for hard to control weeds such as field bindweed and kochia.
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Crop	Application	Pest	Rate/Acre	Directions for Use
Deciduous Fruit, Nut Trees, and vine Crops: Dates Feijoa Figs Grapes Kiwi Fruit Mango Olives Persimmons Pome Fruit Pomegranates Stone Fruit Tree Nuts (excluding Citrus)	Postharvest, Dormant, Prebloom	Listed Broadleaf Weeds	0.7 to 4.0 fl oz/acre	<ul style="list-style-type: none"> ● Do not apply by air for this use. ● ET 2%SC IVM HERBICIDE may be applied from postharvest through before bloom. ● Do not make more than 3 applications or exceed 6.8 fl oz/acre during the growing season. ● The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. ● Do not allow spray to contact green bark of trunk area on young grape vines and fruit or nut trees. ● Use the higher rate for hard to control weeds such as field bindweed and kochia. ● Allow a minimum of 30 days between applications for this use.

Crop	Application	Pest	Rate/Acre	Directions for Use
Nonbearing tree fruit, nut trees and vine crops (excluding Citrus)	Full Season Weed Control	Listed Broadleaf Weeds	0.7 to 4.0 fl oz/acre	<ul style="list-style-type: none"> ● Do not apply by air for this use. ● ET 2%SC IVM HERBICIDE may be applied full season to nonbearing crops listed in this section. ● Do not harvest edible crops for 12 months following the last application of ET 2%SC IVM HERBICIDE. ● Allow a minimum of 30 days between applications for this use.

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				<ul style="list-style-type: none"> • Do not make more than 3 applications or exceed 6.8 fl oz/acre during the growing season • The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. • Do not allow spray to contact green bark of trunk area on young grape vines and fruit or nut trees. • Use the higher rate for hard to control weeds such as field bindweed and kochia.
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Use	Pest	Rate/Acre	Directions for Use
Preplant Fallow Bed and Crop Stubble	Listed Broadleaf Weeds	0.7 to 4.0 fl oz/acre	<ul style="list-style-type: none"> • Apply ET 2%SC IVM HERBICIDE in a minimum of 10 gallons spray solution per acre by ground. • Allow a minimum of 30 days between applications for this use. • Do not make more than 3 applications or exceed 6.8 fl oz/acre during the fallow period. • The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. • Refer to page 4 for crop rotations/plantback restrictions. For crops not listed on this label, applications must be made at least 30 days prior to planting. • Use the higher rate for hard to control weeds such as field bindweed and kochia.

Use	Pest	Rate/Acre	Directions for Use
Non-Cropland, Uncultivated Agricultural Areas, CRP Land/Set-aside Acreage* (non food producing)	Listed Broadleaf Weeds	0.7 to 4.0 fl oz/acre	<ul style="list-style-type: none"> • Apply ET 2%SC IVM HERBICIDE in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground. • Allow a minimum of 30 days between applications for this use. • Do not make more than 3 applications or exceed 6.8 fl oz/acre during the fallow period. • The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. • Refer to page 4 for crop rotations/plantback restrictions. • Use the higher rate for hard to control weeds such as field bindweed and kochia.

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*Follow federal, state and local rules for use on grass and hay.

Use	Pest	Rate/Acre	Directions for Use
<p>Noncrop Weed Control: Airports and airfields, commercial plants, storage and lumber yards, fence lines and fence rows, farmyards and farm buildings, barrier strips and firebreaks, equipment areas, nurseries and ornamental plantings, Christmas trees and conifer plantations site preparation, railroads, roadside and utility rights-of-way, fuel tank farms and pumping stations, dry ditches and ditchbanks, vacant lots, or other listed agricultural and industrial non-crop sites.</p>	<p>Listed Broadleaf Weeds</p>	<p>0.7 to 4.0 fl oz/acre</p>	<ul style="list-style-type: none"> • Do not apply by air for this use. • Avoid contact with desirable vegetation. • The addition of a spray tank adjuvant at a concentration of 0.5% to 2.0% is recommended for optimum weed control. • Make 1 to 2 applications per season to noncrop areas using ground or backback or similar spray equipment. • Apply at 20 to 40 gallons spray solution per acre. • Do not exceed 3 applications of 13.6 fl oz/acre per season. • Use the higher rate for hard to control weeds such as field bindweed and kochia. • For applications to ornamental plantings, do not allow people (other than the applicator) or pets on treatment area during the application and until sprays have dried. • Use the higher rate for hard to control weeds such as field bindweed and kochia.

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Established Ornamental Turf Lawns (residential, industrial, and institutional), Parks, Cemeteries, Athletic Fields, Golf Courses (fairways, aprons, tees, and roughs), Sod Farms, and Similar Turf Areas

For applications to ornamental turf, do not allow people (other than the applicator) or pets on treatment area during the application and until sprays have dried.

Spray Concentrate

Make an appropriate amount of spray concentrate for the area to be treated by adding 10 fl oz of ET 2%SC IVM HERBICIDE to 120 fl oz of water (e.g., 1.25 fl oz ET 2%SC IVM HERBICIDE to 15 fl oz water). Use the appropriate amount of concentrate as specified in the dosage tables below for application by pressure (pump-up) sprayer, hose-end applicator, or similar application equipment.

Spot treatment: Pressure sprayer (Pump-up Sprayer)

Adjust spray nozzle to give coarse spray. Aim at center of weed and spray to wet. A repeat application may be required for hard-to-kill broadleaf weeds. Do not use a hose-end sprayer for spot treatments.

Turf Species	Amount of Spray Concentrate (fluid ounces)	Amount of water to be applied (gallons)	Area treated (square feet)
Cool season grasses: bluegrass, fescue, ryegrass	1.0	4	1000
Warm season grasses: bahiagrass, common bermudagrass, centipedegrass, St. Augustinegrass, zoysiagrass	0.5	2	500

Entire lawn: Dial Type Hose-End Sprayer

Spray lawn using coarse spray. Apply evenly over area to be treated. One application should be sufficient. Effects begin to show after 24 to 48 hours with plant death occurring within 7 to 14 days.

- 1) Measure the total square footage area to be sprayed. To determine the total square foot area, multiply the length by the width of the lawn area to be treated. Subtract square footage of non-treatment areas including flower beds, shrub beds, driveways and sidewalks.
- 2) The application rate of this product is indicated in the following table for every per 1,000 square feet of lawn area. Add the appropriate amount of this product to the spray bottle, [jar], [reservoir], as indicated in the table for every 1,000 sq. ft. of lawn area to be treated.
- 3) Set the dial to the correct fluid ounce setting mix rate indicated in the following table.
- 4) Connect the hose, turn on water and spray evenly over the lawn treatment area.
- 5) Monitor the spray solution level in the spray bottle, [jar]. [reservoir], to gauge coverage.

Turf Species	Area to be Treated	Amount of spray concentrate	Dial-type Hose-end sprayer mix setting
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	(square feet)	(fluid ounces)	(fl oz per gallon)
Cool season grasses: bluegrass, fescue, ryegrass	1000	1.0	2.0 fl oz
	5000	5.0	
	8000	8.0	

Broadcast Application: Spray using coarse spray. Apply evenly over area to be treated.

Turf Species	Amount of Spray Concentrate (fluid ounces)	Area treated (square feet)
Cool season grasses: bluegrass, fescue, ryegrass;	1.0	1000
	5.0	5000
Warm season grasses: bahagrass, common bermudagrass, centipedegrass, St Augustinegrass, zoysiagrass	8.0	8000

Nurseries And Ornamental Plantings; Sodfarms; Christmas Trees; Established Ornamental Turf

Turfgrass Tolerance

Established turfgrasses tolerant to application of ET 2%SC IVM HERBICIDE at labeled rates are listed below. For turfgrass species not listed on this label, the user should apply ET 2%SC IVM HERBICIDE to a small test area to assure tolerance. A slight transitory yellowing or discoloration may occur on some sensitive turfgrass species under stress 3 to 5 days following application of ET 2%SC IVM HERBICIDE at labeled rates. Recovery is typically 4 to 7 days from application.

Cool Season Turfgrasses (creeping bentgrass, Kentucky bluegrass, Rough bluegrass, tall fescue, perennial ryegrass). Cool season grasses, both newly seeded and established, are generally tolerant to application of ET 2%SC IVM HERBICIDE at labeled rates. To evaluate tolerance of certain species, apply to a small test area before treating large areas to assure tolerance. Be aware and observe all label restrictions regarding turfgrass tolerance when ET 2%SC IVM HERBICIDE is tank mixed with another product.

Warm Season Turfgrasses (common and hybrid bermudagrass, centipedegrass, St. Augustinegrass, zoysiagrass). Warm season turfgrasses listed above are generally tolerant to applications of ET 2%SC IVM HERBICIDE at labeled rates. Centipedegrass may exhibit a slight yellow 3 to 7 days after application, however complete recovery is expected. To evaluate tolerance of certain species, apply to a small test area before treating large areas to assure tolerance. Be aware and observe all label restrictions regarding turfgrass tolerance when ET 2%SC IVM HERBICIDE is tank mixed with another product.

Newly Seeded, Sodded, or Sprigged Turfgrass

ET 2%SC IVM HERBICIDE may be applied to newly seeded, sodded, or sprigged turfgrass that is established and not subject to impending stress due to moisture, temperature, or other cultural practices. Areas treated with ET 2%SC IVM HERBICIDE may be seeded or overseeded one day following application.

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Dormant Turfgrass

Applications of ET 2%SC IVM HERBICIDE to dormant warm season turfgrasses are permitted. Avoid applications when warm season turfgrasses are transitioning into or out of dormancy.

For applications to ornamental turf and plantings, do not allow people (other than the applicator) or pets on treatment area during application and until sprays have dried (refer to Nonagricultural Use Requirements box). Apply ET 2%SC IVM HERBICIDE at rates specified in the dosage table below for control of broadleaf weeds. ET 2%SC IVM HERBICIDE is a broadleaf contact herbicide. ET 2%SC IVM HERBICIDE may be tank mixed with other registered grass herbicides for control of grassy weeds. **Avoid contact with desirable vegetation.**

Spray Volume

ET 2%SC IVM HERBICIDE is a contact herbicide that causes herbicidal symptoms only to plant parts that come into contact with spray applications. Therefore, proper spray volume and uniform coverage are important to maximize efficacy of ET 2%SC IVM HERBICIDE. Uniform sprays should be applied at 20 to 200 gallons/A (0.5 to 4.5 gallons per 1000 sq. ft). Higher spray volumes should be used to target high weed populations and/or weeds contained in dense turfgrass canopies.

Use of Adjuvants

Addition of surfactants (spreaders/stickers) to the spray solution will improve efficacy and contact activity of ET 2%SC IVM HERBICIDE. Follow manufacturer's recommended use rates for specific sites.

Use	Rate/Acre	Directions for Use
Nursery and ornamental plantings	When not tank mixing with other herbicides: Apply ET 2%SC IVM HERBICIDE at rates of 1.0 to 4.0 fluid ounces per acre in 20 to 40 GPA for control of seedling, non-mature winter and summer annual weeds and/or for temporary burndown of weeds listed in <i>Weeds Controlled</i> . Tank mixes including other broadleaf herbicides with ET 2%SC IVM HERBICIDE may be needed for control of larger winter and summer annual weeds.	<ul style="list-style-type: none"> ▪ Do not make more than 3 applications or exceed 13.6 fl oz/A per year using ground equipment. ▪ Allow a minimum of 30 days between applications. ▪ Do not apply by air. ▪ Do not apply when environmental conditions favor spray drift or poor spray coverage. ▪ Avoid spray drift onto nontarget susceptible plants such as vegetables, flowers, ornamental, trees, shrubs, and other desirable plants. ▪ Do not apply to lawns or turf where clovers and carpetgrass are desirable. ▪ Not for use on golf course greens or tees.
Sodfarms	When tank mixing with other herbicides: Apply ET 2%SC IVM HERBICIDE at rates of 0.7 to 1.5 fluid ounces per acre in tank mix combinations with herbicides registered for use such as amines, esters, and salts of 2,4-D, chloroprop, dicamba, mecoprop, MCPA, triclopyr, fluroxypyr, and various combination of these products for control of annual weeds and perennial weeds listed in <i>Weeds Controlled</i> . Residual, long-term control of the target weeds is as defined by the labeling of the companion product. For tank mixing with herbicides follow the tank mix directions.	
Christmas trees		
Established Ornamental turf		

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Crop	Pest	Rate/Acre	Directions for Use
Pasture and Rangeland	Listed Broadleaf Weeds	1.0 to 3.5 fl oz/acre	<ul style="list-style-type: none"> • Allow a minimum of 14 days between applications for this use. • Do not make more than 2 applications or exceed 7.0 fl oz/acre per season for this use. • Livestock may graze treated areas as soon as the spray solution has dried on the foliage. • The addition of a crop oil or spray tank adjuvant at a concentration of 0.5% to 1.0% is recommended for optimum weed control. • Refer to page 4 for crop rotations/plantback restrictions. • Use a minimum of 2 gallons water per acre by air or 10 gallons water per acre by ground for this application. • Use the higher rate for hard to control weeds such as field bindweed and kochia.

Backpack Sprayer Dosage Chart

For use in backpack sprayers having tank capacity of 3 to 5 gallons, accurate calibration and measurement of the appropriate amount of product is important to deliver the desired rate of ET 2%SC IVM HERBICIDE. Use the chart below to determine the quantity of ET 2%SC IVM HERBICIDE to be added to a backpack sprayer having a capacity of 3 to 5 gallons to equal a 1.5 fl oz/A rate.

Backpack tank capacity (gallons)	Spray volume (gallons/A)	fluid oz product per tank for 1.5 fl oz/A	ml product per tank for 1.5 fl oz/A
3	20	0.23	6.6
	30	0.15	4.4
	40	0.11	3.3
4	20	0.30	8.9
	30	0.20	5.9
	40	0.15	4.4
5	20	0.38	11.1
	30	0.25	7.4
	40	0.19	5.5

For smaller volume sprayers less than three (3) gallons in size, measure 0.03 to 0.07 fl. oz. (1 to 2.1 ml) of ET 2%SC IVM HERBICIDE per one (1) gallon of water when tank mixing with other herbicides to equal a 1.5 fl. oz./A rate. For specific measurements based on spray volume (gallons/A), see the table below.

Spray Volume (gallons/A)	fluid oz product per gallon water for 1.5 fl. oz/A	ml product per gallon water for 1.5 fl. oz/A
20	0.07	2.1
30	0.05	1.4
40	0.03	1.0

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24**STORAGE AND DISPOSAL**

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in a cool place.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Nonrefillable container. **DO NOT** reuse or refill this container. Triple rinse (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 $\frac{1}{4}$ 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties, and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be accurate and must be followed carefully. However, because of extreme weather and soil conditions, use methods and other factors beyond the control of Nichino America, Inc. (NAI), it is impossible for NAI to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. To the extent consistent with applicable law, all such risks are assumed by the user or buyer.

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