



HERBICIDE/DEFOLIANT

PYRAFLUFEN-
ETHYL

GROUP

14

HERBICIDE

**A Contact Herbicide for Broadleaf Weed Control,
Defoliation, and Desiccation**

ACTIVE INGREDIENT: Pyraflufen ethyl: Acetic acid, [2-chloro-5-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-4-fluorophenoxy]-, ethyl ester

4.0%

OTHER INGREDIENTS*:

96.0%

TOTAL

100.0%

Contains 0.335 lb pyraflufen ethyl per gallon

*contains petroleum distillates

EPA REG. No. 71711-41

EPA Est. No. 70815-GA-002

**KEEP OUT OF REACH OF CHILDREN
DANGER – PELIGRO**

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

*See inside booklet for First Aid, Precautionary
Statements, and Directions for Use*

NET CONTENTS: 1/2 gallon



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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 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.

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.

NOTE TO PHYSICIAN

May pose an aspiration pneumonia hazard. Contains petroleum distillates. Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - PELIGRO

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. **DO NOT** get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, socks, shoes, and gloves.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made from barrier laminate and/or butyl rubber ≥ 14 mils
- Protective eyewear
- For overhead exposure, wear chemical-resistant headgear

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.

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 Statement

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

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. **DO NOT** apply if rainfall is expected within one hour.

Nontarget Organism Advisory: This product is toxic to plants and may adversely impact the forage and habitat of nontarget organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of nontarget organisms by following label directions intended to minimize spray drift.

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.

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AGRICULTURAL USE REQUIREMENTS *(continued)*

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 from barrier laminate and/or butyl rubber ≥ 14 mils
- Shoes plus socks
- Protective eyewear

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.

PRODUCT INFORMATION

ETX[®]X Herbicide/Defoliant is a contact herbicide and defoliant and requires thorough coverage for complete broadleaf weed control and defoliation/desiccation.

ETX Herbicide/Defoliant must be tank mixed with another foliar active broadleaf herbicide for complete control of most broadleaf weeds.

DO NOT apply ETX Herbicide/Defoliant through any type of irrigation system.

ETX Herbicide/Defoliant is rainfast within one hour after application.

ROTATIONAL CROP RESTRICTIONS

Crop/Crop Group	Rotational/Plantback Intervals
<p> Corn Cottonseed Subgroup (Crop Subgroup 20C) Hops Peanut Pome Fruits (Crop Group 11-10) Pomegranate Small Fruit Vine Climbing Subgroup, Except Fuzzy Kiwifruit (Crop Group 13-07F) Soybean Stone Fruits (Crop Group 12-12) Tree Nuts (Crop Group 14-12) Triticale Tropical and Subtropical, Small Fruit, Edible Peel Subgroup (Crop Subgroup 23A) Tuberous and Corm Vegetable Subgroup (Crop Subgroup 1C) Wheat </p>	<p>0 days following application</p>

ROTATIONAL CROP RESTRICTIONS *(continued)*

Crop/Crop Group	Rotational/Plantback Intervals
<p> Bulb Vegetables (Crop Group 3) Cereal Grains (Crop Group 15) Except corn, wheat, and triticale; see 0-day plantback interval above Brassica (Cole) Leafy Vegetables (Crop Group 5) Cucurbit Vegetables (Crop Group 9) Fruiting Vegetables, Except Cucurbits (Crop Group 8) Leafy Vegetables, Except Brassica Vegetables (Crop Group 4) Legume Vegetables, Succulent or Dried (Crop Group 6) Except soybean; see 0-day plantback interval above Oilseed Group (Crop Group 20) Root and Tuber Vegetables (Crop Group 1) Except Crop Subgroup 1C; see 0-day plantback interval above Sugarcane </p>	<p> 1 day following preplant burndown application </p>

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ROTATIONAL CROP RESTRICTIONS *(continued)*

Crop/Crop Group	Rotational/Plantback Intervals
All Other Rotational Crops	DO NOT plant for 30 days following the last application of ETX Herbicide/Defoliant

WEEDS CONTROLLED

The following broadleaf weed species can be controlled or suppressed up to 4 inches in height or less or rosettes of 3 inches in diameter or less. Tank mixtures of ETX Herbicide/Defoliant with other labeled broadleaf herbicides may be needed for control of some weed species.

WEEDS CONTROLLED *(continued)*

Alkaliweed*	Geranium, Carolina
Amaranth, Palmer*	Henbit
Bedstraw	Horsenettle*
Beggartick, hairy	Kochia
Beggarweed, Florida	Ladysthumb
Bindweed, field	Lambsquarters, common
Buckwheat, wild	Lettuce, prickly
Canola	Mallow, common
Carpetweed	Malva spp.
Celery, wild	Marestail*
Chickweed	Milkthistle
Clover, white	Morningglory species
Cocklebur	Mustard, wild*
Cotton, volunteer (conventional, GMO varieties)	Nettle, stinging
Dandelion, common	Nightshade, black
Dock, curly	Panicle willowweed
Dollarweed	Pigweed, redroot
Eclipta	Pigweed, smooth
Evening-primrose, cutleaf	Pineapple-weed
Fleabane*	Poinsettia, wild
	Poison-ivy

Potato, volunteer	Spurge, leafy
Prickly sida (teaweed)	Sunflower, common
Purslane, common	Tansymustard, western
Radish, wild	Thistle, Canada
Ragweed, common	Thistle, Russian
Ragweed, giant	Toadflax, Dalmatian
Redmaid	Velvetleaf
Rocket, London	Virginia-creeper
Sesbania, hemp	Waterhemp, common
Smartweed, Pennsylvania	Waterhemp, tall
Smellmelon	
Sowthistle, annual	
*suppression	

WEED RESISTANCE MANAGEMENT

For resistance management, ETX Herbicide/Defoliant is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to ETX Herbicide/Defoliant and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management

strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of ETX Herbicide/Defoliant or other Group 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application

method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties), and other management practices.

- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of noncontrolled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.

- Contact your local extension specialist or certified crop advisor for additional pesticide resistance management and/or integrated weed management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Nichino America, Inc. representatives at 888-740-7700.

Suspected herbicide resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of noncontrolled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so

that there are multiple effective mechanisms of actions for each target weed.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy unless a greater application height is necessary for pilot safety.
- Applicators are required to use a fine or coarser droplet size (ASABE S572).
- If the windspeed is 10 miles per hour or less, applicators must use $\frac{1}{2}$ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use $\frac{3}{4}$ swath displacement upwind at the downwind edge of the field.

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- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- **DO NOT** apply during temperature inversions.

Ground Boom Applications

- User must only apply with the release height specified by the manufacturer but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use fine or coarser droplet size (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

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Boomless Ground Applications

- Applicators are required to use fine or coarser droplet size (ASABE S572) for all applications.
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NONTARGET SITES AND ENVIRONMENTAL CONDITIONS.

Importance of Droplet Size

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

Pressure - Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.

Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

Adjust Nozzles. Follow nozzle manufacturer's specifications for setting up nozzles. Generally, to reduce fine droplets, orient nozzles parallel with the airflow in flight.

Boom Height - Ground Boom

For ground equipment, the boom must remain level with the crop and have minimal bounce.

Release Height - Aircraft

Higher release heights increase the potential for spray drift.

Shielded Sprayers

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

Temperature and Humidity

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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. Avoid applications during temperature inversions.

Wind

Drift potential increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boomless Ground Applications

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

TANK MIXTURES

ETX Herbicide/Defoliant may be applied as a tankmix or in sequential application with other harvest aid, 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.

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

Note: Test compatibility of ETX Herbicide/Defoliant in any tank-mix combination 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 quart 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.

MIXING DIRECTIONS

Add $\frac{1}{2}$ to $\frac{3}{4}$ of the required amount of water to the spray tank. Start agitation. Add the required amount of ETX Herbicide/Defoliant 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 ETX Herbicide/Defoliant in a water source greater than or equal to pH 7.5. Always buffer the water source BEFORE adding ETX Herbicide/Defoliant to the spray tank.

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 **ETX Herbicide/Defoliant 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 ETX Herbicide/Defoliant 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 $\frac{1}{2}$ 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.

SPOT TREATMENT

For spot treatment to listed broadleaf weeds, refer to the information below to determine the amount of ETX Herbicide/Defoliant to add to a tank. Spray using a pressure (pump-up) sprayer (or similar application equipment) until wet but prior to runoff. Use information for rates, concentrations, water volumes, and timing and frequency of application can be found in the **Rate/Acre** and **Directions for Use** columns in the **Application and Dosage** tables. Please refer to and follow all precautions and restrictions under **Directions for Use** for the crop to be treated.

Fluid Ounce of ETX Herbicide/Defoliant to Add to Sprayer Tank

Sprayer tank capacity (gallons)	Spray volume (gallons/A)	fluid oz ETX Herbicide/De- foliant to add per tank for a rate of 0.45 fl oz/A (0.0012 lb ai/A)	fluid oz ETX Herbicide/De- foliant to add per tank for a rate of 2.05 fl oz/A (0.0054 lb ai/A)
1	20	0.02	0.10
3	20	0.07	0.31
5	20	0.11	0.51
10	20	0.23	1.03

Formula

$$\begin{array}{lcl} \text{Fluid oz ETX} & & \text{Application rate} \\ \text{Herbicide/Defoliant} & = & \times \text{Sprayer tank capacity} \\ \text{to add to sprayer tank} & & \hline & & \text{Spray volume} \end{array}$$

Example Calculation for 1 gallon sprayer tank capacity

$$\begin{array}{lcl} \text{Fluid oz ETX} & & 2.05 \text{ fl oz/A} \\ \text{Herbicide/Defoliant} & = & \times 1 \text{ gallon} \\ \text{to add to sprayer tank} & & \hline & & 20 \text{ gallons/A} \\ & & = 0.10 \text{ fl oz} \end{array}$$

Where: Application rate = 2.05 fl oz/A
Sprayer tank capacity = 1 gallon
Spray volume = 20 gallons/A

Example Calculation for 5 gallon sprayer tank capacity

$$\begin{array}{lcl} \text{Fluid oz ETX} & & 2.05 \text{ fl oz/A} \\ \text{Herbicide/Defoliant} & = & \times 5 \text{ gallons} \\ \text{to add to sprayer tank} & & \hline & & 20 \text{ gallons/A} \\ & & = 0.51 \text{ fl oz} \end{array}$$

Where: Application rate = 2.05 fl oz/A
Sprayer tank capacity = 5 gallons
Spray volume = 20 gallons/A

APPLICATION AND DOSAGE

Bulb Vegetables (Crop Group 3) - garlic, elephant garlic, leek, dry bulb, green and Welch onion, shallot

Cereal Grains (Crop Group 15) - barley, buckwheat, corn, pearl and proso millet, oats, popcorn, rice, rye, sorghum, teosinte, triticale, wheat, wild rice

Brassica (Cole) Leafy Vegetables (Crop Group 5) - broccoli, Chinese broccoli, broccoli raab, Brussels sprouts, cabbage, Chinese cabbage (bok choy and Napa), Chinese mustard cabbage, cauliflower, cavalo broccolo, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, rape greens

(continued)

APPLICATION AND DOSAGE *(continued)*

Cucurbit Vegetables (Crop Group 9) - chayote, Chinese waxgourd, citron melon, cucumber, gherkin, edible gourd, balsam apple, balsam pear, bitter melon, Chinese cucumber, muskmelons (including cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon), pumpkin, winter and summer squash species, watermelon

Fruiting Vegetables, Except Cucurbits (Crop Group 8) - eggplant, groundcherry, pepino, pepper (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), tomatillo, tomato

Leafy Vegetables, Except Brassica Vegetables (Crop Group 4) amaranth, arugula, cardoon, celery, Chinese celery, celtuce, chervil, edible-leaved chrysanthemum, corn salad, garden cress, upland cress, dandelion, dock, endive, fennel, lettuce, orach, parsley, purslane, radicchio, rhubarb, spinach, Swiss chard

(continued)

APPLICATION AND DOSAGE *(continued)*

Legume Vegetables, Succulent or Dried (Crop Group 6) - beans (including grain lupin, sweet lupin, white lupin, white sweet lupin, field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean, adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean, broad bean, chickpea, guar, jackbean, lablab bean, lentil, dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea, pigeon pea, soybean, sword bean)

Oilseed Group (Crop Group 20) - borage, calendula, castor oil plant, Chinese tallowtree, cottonseed, crambe, cuphea, echium, euphorbia, evening primrose, flax seed, gold of pleasure, hare's ear mustard, jojoba, lesquerella, lunaria, meadowfoam, milkweed, mustard seed, niger seed, oil radish, poppy seed, rapeseed (canola), rose hip, safflower, sesame, stokes aster, sunflower, sweet rocket, tallowwood, tea oil plant, vernonia

(continued)

APPLICATION AND DOSAGE *(continued)*

Root and Tuber Vegetables (Crop Group 1) - arracacha, arrow-root, Chinese and Jerusalem artichoke, garden beet, sugar beet, edible burdock, edible canna, carrot, bitter cassava, sweet cassava, celeriac, chayote, chervil, chicory, chufa, dasheen, ginger, ginseng, horseradish, leren, parsley, parsnip, potato, radish, daikon, rutabaga, salsify, skirret, sweet potato, tanier, turmeric, turnip, yam bean, true yam

Sugarcane

Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- Apply in a minimum of 5 gallons water per acre by air or 10 gallons spray solution per acre by ground.
- The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.
- Use the higher rate for hard-to-control weeds.
- Refer to pages 9-11 for crop rotation/plantback restrictions.

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** exceed 3 applications or 3.4 fl oz/acre (0.0089 lb ai/acre) per year.
- Allow a minimum of 30 days between applications for this use.

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APPLICATION AND DOSAGE *(continued)*

Corn field corn, popcorn, seed corn, corn silage, corn stover		
Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)
After Planting, Before Crop Emergence		
Directions for Use		
<ul style="list-style-type: none">• Apply ETX Herbicide/Defoliant in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.• The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.		

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- COC adjuvants are advised, although other adjuvants may be used.
- Use the higher rate for hard-to-control weeds.
- Refer to pages 9-11 for crop rotation/plantback restrictions.

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** exceed 3 applications or 3.4 fl oz/acre (0.0089 lb ai/acre) per year for all preplant burndown uses.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year after planting, prior to crop emergence.
- Allow a minimum of 30 days between applications for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

Cottonseed Subgroup (Crop Subgroup 20C)

cottonseed, cultivars, varieties, and/or hybrids of these

Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)
After Planting, Before Crop Emergence		

Directions for Use

- Apply ETX Herbicide/Defoliant in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.
- The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- COC adjuvants are advised, although other adjuvants may be used.

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year for this use.
- Allow a minimum of 30 days between applications for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

Cottonseed Subgroup (Crop Subgroup 20C)

cottonseed, cultivars, varieties, and/or hybrids of these

Application	Pest	Rate/Acre
Postemergence (Hooded)	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)

Directions for Use

- Apply to cotton having less than 3 inches of stem bark using hooded ground equipment only.
- Avoid contact with desirable vegetation.

USE RESTRICTIONS

- **DO NOT** apply by air for this use.
- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use
<ul style="list-style-type: none">• DO NOT apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year for this use.• Allow a minimum of 30 days between applications for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

Cottonseed Subgroup (Crop Subgroup 20C) cottonseed, cultivars, varieties, and/or hybrids of these		
Application	Pest	Rate/Acre
Postemergence (Layby)	Listed Broadleaf Weeds	0.3 to 0.6 fl oz/acre (0.0008 to 0.0016 lb ai/acre)
Directions for Use		
<ul style="list-style-type: none">• 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. <p>USE RESTRICTIONS</p> <ul style="list-style-type: none">• DO NOT apply by air for this use.• DO NOT apply more than 0.6 fl oz (0.0016 lb ai) per acre in a single application for this use.		

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- **DO NOT** apply more than 0.6 fl oz/acre (0.0016 lb ai/acre) per year for this use.
- Allow a minimum of 30 days between applications for this use.

Cottonseed Subgroup (Crop Subgroup 20C)

cottonseed, cultivars, varieties, and/or hybrids of these

Application	Rate/Acre
Preconditioning	0.2 to 0.46 fl oz/acre (0.0005 to 0.0012 lb ai/acre)

Directions for Use

- ETX Herbicide/Defoliant may be used as a preconditioner to enhance the activity of a defoliation application.
- Apply using 5 gallons of water per acre by air or 20 to 30 gallons of water per acre by ground.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

USE RESTRICTIONS

- Timing of application is advised 7 to 14 days prior to a defoliation application of ETX Herbicide/Defoliant or the use of another defoliant. Refer to the **Defoliation** section below prior to use for complete recommendations.
- **DO NOT** apply more than 0.46 fl oz (0.0012 lb ai) per acre in a single application for this use.
- **DO NOT** exceed 2 applications or 3.4 fl oz/acre (0.0089 lb ai/acre) per year for all defoliation applications to cotton.

(continued)

APPLICATION AND DOSAGE *(continued)*

Cottonseed Subgroup (Crop Subgroup 20C) cottonseed, cultivars, varieties, and/or hybrids of these		
Application	Pest	Rate/Acre
Defoliation	Defoliation of cotton	0.9 to 1.7 fl oz/acre (0.0024 to 0.0045 lb ai/acre)
Directions for Use		
<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 days, depending upon weather and crop conditions.• ETX Herbicide/Defoliant may be tank mixed or applied in sequence with other defoliant products.• Apply using 5 gallons of water per acre by air or 20 to 30 gallons of water per acre by ground.		

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

USE RESTRICTIONS

- **DO NOT** apply more than 1.7 fl oz (0.0045 lb ai) per acre in a single application for this use.
- **DO NOT** exceed 2 applications or 3.4 fl oz/acre (0.0089 lb ai/acre) per year for defoliation of cotton.
- Applications must be a minimum of 7 days apart.

Cottonseed - All Uses

- Use the listed higher rates for hard-to-control weeds.
- Refer to pages 9-11 for crop rotation/plantback restrictions.

USE RESTRICTIONS

- **DO NOT** apply more than 5.27 fl oz/acre (0.0138 lb ai/acre) per year for all preplant burndown; after planting, before crop emergence; postemergence (hooded); postemergence (layby); preconditioning; and defoliation applications combined.
- Preharvest Interval (PHI): 7 days

(continued)

APPLICATION AND DOSAGE *(continued)*

Peanut		
Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)
After Planting, Before Crop Emergence		
Directions for Use		
<ul style="list-style-type: none">• Apply in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.• The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.• Use the listed higher rates for hard-to-control weeds.• Refer to pages 9-11 for crop rotation/plantback restrictions.		

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year for all preplant burndown applications.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year for all after planting, before crop emergence applications.
- Preharvest Interval (PHI): 7 days

(continued)

APPLICATION AND DOSAGE *(continued)*

Soybean		
Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)
After Planting, Before Crop Emergence		
Directions for Use		
<ul style="list-style-type: none">• Apply ETX Herbicide/Defoliant in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.• The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.• COC adjuvants are advised, although other adjuvants may be used.		

APPLICATION AND DOSAGE *(continued)*

Directions for Use

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year prior to planting and/or emergence of crop.
- Allow a minimum of 30 days between applications for this use.

Soybean

Application	Pest	Rate/Acre
Postemergence	Listed Broadleaf Weeds	0.3 to 0.6 fl oz/acre (0.0008 to 0.0016 lb ai/acre)

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- ETX Herbicide/Defoliant can be applied from crop emergence to the V6 growth stage.
- Some temporary herbicidal leaf speckling may appear on the crop. This effect is transient and will NOT appear on new growth.
- Apply ETX Herbicide/Defoliant in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.

USE RESTRICTIONS

- **DO NOT** use crop oils or crop oil concentrates for postemergence applications.
- **DO NOT** apply more than 0.6 fl oz (0.0016 lb ai) per acre in a single application for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- **DO NOT** apply more than 0.6 fl oz/acre (0.0016 lb ai/acre) per year for this use.
- **DO NOT** make more than 2 applications per year for this use.
- Allow a minimum of 30 days between applications for this use.

Soybean - All Uses

- Use the higher rate for hard-to-control weeds.
- Refer to pages 9-11 for crop rotation/plantback restrictions.

USE RESTRICTIONS

- **DO NOT** apply more than 1.86 fl oz/acre (0.0049 lb ai/acre) per year for all preplant burndown; after planting, before crop emergence; and postemergence applications combined.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- **DO NOT** graze soybean forage or cut for hay within 7 days of the last ETX Herbicide/Defoliant application.
- **DO NOT** harvest soybeans for grain within 70 days after the last application of ETX Herbicide/Defoliant.

Triticale; Wheat

Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)
After Planting, Before Crop Emergence		

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- Apply ETX Herbicide/Defoliant in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.
- The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.
- COC adjuvants are advised, although other adjuvants may be used.

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** exceed 3 applications or 3.4 fl oz/acre (0.0089 lb ai/acre) per year for preplant burndown uses.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year after planting, before emergence of crop.
- Allow a minimum of 30 days between applications for this use.

APPLICATION AND DOSAGE *(continued)*

Triticale; Wheat		
Application	Pest	Rate/Acre
Postemergence	Listed Broadleaf Weeds	0.3 to 0.6 fl oz/acre (0.0008 to 0.0016 lb ai/acre)
Directions for Use		
<ul style="list-style-type: none">• ETX Herbicide/Defoliant can be applied from crop emergence to the appearance of the flag leaf.• Some temporary herbicidal leaf speckling may appear on the crop. This effect is transient and will NOT appear on new growth.• Apply ETX Herbicide/Defoliant in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.		

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- The addition of a NIS adjuvant at a concentration of 0.25% is advised for optimum weed control.

USE RESTRICTIONS

- **DO NOT** apply ETX Herbicide/Defoliant to flag leaf stage or beyond.
- **DO NOT** apply more than 0.6 fl oz (0.0016 lb ai) per acre in a single application for this use.
- **DO NOT** apply more than 0.6 fl oz/acre (0.0016 lb ai/acre) per year for this use.
- **DO NOT** apply more than 2 applications per year.
- Allow a minimum of 30 days between applications for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

Triticale; Wheat - All Uses

- Use the higher rate for hard-to-control weeds.
- Refer to pages 9-11 for crop rotation/plantback restrictions.

USE RESTRICTIONS

- **DO NOT** apply more than 3.4 fl oz/acre (0.0089 lb ai/acre) per year for all preplant burndown applications.
- **DO NOT** apply more than 1.87 fl oz/acre (0.0049 lb ai/acre) per year for all after planting, prior to emergence and postemergence uses.
- **DO NOT** harvest triticale or wheat for hay within 21 days of the last ETX Herbicide/Defoliant application.
- **DO NOT** harvest triticale or wheat for grain within 60 days after the last application of ETX Herbicide/Defoliant.

(continued)

APPLICATION AND DOSAGE *(continued)*

Tuberous and Corm Vegetables Subgroup

(Crop Subgroup 1C) arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen; ginger; leren; potato; sweet potato; tanier; turmeric; yam bean; yam, true

Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)
After Planting, Before Crop Emergence		

Directions for Use

- Apply in a minimum of 5 gallons water per acre by air or 10 gallons spray solution per acre by ground.
- The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.

APPLICATION AND DOSAGE *(continued)*

Directions for Use

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year for all preplant burndown applications.
- **DO NOT** apply more than 1.25 fl oz/acre (0.0033 lb ai/acre) per year for all after planting, before crop emergence applications.
- Allow a minimum of 30 days between applications for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

Application	Pest	Rate/Acre
Desiccation	Potato Foliage and Vines Listed Broadleaf Weeds	1.72 to 3.4 fl oz/acre (0.0045 to 0.0089 lb ai/acre)
Directions for Use		
<ul style="list-style-type: none">• Apply as a foliar spray in the early stage of crop senescence.• Apply by air at 5 gallons per acre or 20 to 50 gallons per acre by ground equipment.• A repeat application of ETX Herbicide/Defoliant or another desiccant may be needed under certain climatic conditions for complete desiccation.• ETX Herbicide/Defoliant may be tank mixed or applied in sequence with other desiccants such as diquat or glufosinate for improved desiccation.		

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- Higher water volumes must be used in dense canopy conditions.

USE RESTRICTIONS

- **DO NOT** apply more than 3.4 fl oz/acre (0.0089 lb ai/acre) in a single application for this use.
- Make 1 to 2 applications at a minimum 7-day interval.
- **DO NOT** exceed 2 applications or 6.8 fl oz/acre (0.0179 lb ai/acre) per year for desiccation.
- Preharvest Interval (PHI): 7 days

(continued)

APPLICATION AND DOSAGE *(continued)*

Tuberous and Corm Vegetables (Crop Subgroup 1C) – All Uses

- Use the listed higher rates for hard-to-control weeds.
- Refer to pages 9-11 for crop rotation/plantback restrictions.

USE RESTRICTIONS

- **DO NOT** apply more than 6.8 fl oz/acre (0.0179 lb ai/acre) per year for all preplant burndown; after planting, prior to emergence; and desiccation applications combined.
- Preharvest Interval (PHI): 7 days

Fallow Bed; Crop Stubble

Application	Pest	Rate/Acre
Preplant Burndown	Listed Broadleaf Weeds	0.3 to 1.25 fl oz/acre (0.0008 to 0.0033 lb ai/acre)

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- Apply ETX Herbicide/Defoliant in a minimum of 5 gallons spray solution per acre by air or 10 gallons spray solution per acre by ground.
- The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.
- COC adjuvants are advised, although other adjuvants may be used.
- Use the higher rate for hard-to-control weeds.
- Refer to pages 9-11 for crop rotation/plantback restrictions.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

USE RESTRICTIONS

- **DO NOT** apply more than 1.25 fl oz (0.0033 lb ai) per acre in a single application for this use.
- **DO NOT** make more than 3 applications or exceed 3.4 fl oz/acre (0.0089 lb ai/acre) during the fallow period.
- Allow a minimum of 30 days between applications for this use.

(continued)

APPLICATION AND DOSAGE *(continued)*

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 plantation site preparation, railroads, roadside and utility rights-of-way, fuel tank farms and pumping stations, dry ditches and ditchbanks, vacant lots, or other agricultural and industrial noncrop sites

Pest	Rate/Acre
Listed Broadleaf Weeds	0.3 to 1.7 fl oz/acre (0.0008 to 0.0045 lb ai/acre)

Directions for Use

- Apply ETX Herbicide/Defoliant in a minimum of 20 to 40 gallons spray solution per acre by ground.

(continued)

APPLICATION AND DOSAGE *(continued)*

Directions for Use

- The addition of a COC adjuvant at a concentration of 1.0% to 2.0% is advised for optimum weed control. Use the higher COC rate for larger labeled weed species or in low moisture conditions.
- COC adjuvants are advised, although other adjuvants may be used.
- Use the higher rate for hard-to-control weeds.
- Avoid contact with desirable vegetation.

USE RESTRICTIONS

- 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.
- **DO NOT** apply more than 1.7 fl oz (0.0045 lb ai) per acre in a single application for this use.
- **DO NOT** make more than 3 applications or exceed 5.1 fl oz/acre (0.0134 lb ai/acre) per year.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in a cool, dry area under lock and key.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, or rinseate 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.

(continued)

STORAGE AND DISPOSAL *(continued)*

CONTAINER HANDLING: 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 if available, or reconditioning if appropriate, 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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01/23/2023



HERBICIDE/DEFOLIANT

PYRAFLUFEN-
ETHYL

GROUP

14

HERBICIDE

**A Contact Herbicide for Broadleaf Weed Control,
Defoliation, and Desiccation**

ACTIVE INGREDIENT: Pyraflufen ethyl: Acetic acid, [2-chloro-5-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-4-fluorophenoxy]-, ethyl ester

4.0%

OTHER INGREDIENTS*:

96.0%

TOTAL

100.0%

Contains 0.335 lb pyraflufen ethyl per gallon

*contains petroleum distillates

EPA REG. No. 71711-41

EPA Est. No. 70815-GA-002

**KEEP OUT OF REACH OF CHILDREN
DANGER – PELIGRO**

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

*See attached booklet for First Aid, Precautionary
Statements, and Directions for Use*

NET CONTENTS: 1/2 gallon



NICHINO

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