



# MG PRO Weed & Grass Control – Tech Sheet

## *Non-selective Herbicide*



### Essential Characteristics

#### Active Ingredients

<i>Active Ingredient</i>	%
Ammonium Nonanoate	40.0%
Other Ingredients	60.0%
<b>Total</b>	<b>100%</b>

**MIRIMICHI GREEN PRO CONCENTRATE** contains 3.3lbs. of ammonium nonanoate per US gallon.

## METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS

### General Instructions:

**MIRIMICHI GREEN PRO CONCENTRATE** is a contact non-selective herbicide for spray application only to undesirable plant growth. Do not allow spray to contact any green plant parts of desirable plants. **MIRIMICHI GREEN PRO CONCENTRATE** provides control and burndown suppression of annual and perennial broadleaf and grass weeds. Spore producing plants such as mosses and liverworts are also controlled. The amount of burndown and the duration of weed suppression may be reduced when weed growth conditions are unfavorable or when plants are mature.

**MIRIMICHI GREEN PRO CONCENTRATE** is non-volatile and water soluble for foliar application in tractor powered field-type sprayers or manual pump sprayers. Complete and uniform coverage of weeds by the spray solution is required for the best weed control. Plant foliage will change from a green color to brown/black necrotic tissue within one to two hours after spray application of **MIRIMICHI GREEN PRO CONCENTRATE** diluted with water. **MIRIMICHI GREEN PRO CONCENTRATE** effect on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is normally unaffected by temperature.

**MIRIMICHI GREEN PRO CONCENTRATE** herbicide is a soap product which penetrates the cell walls of plants to disrupt the cellular organization of physiological functions which are compartmentalized by membranes within the cell walls. Plant growth ceases when cellular contents are mixed which causes brown necrotic plant tissue.

**MIRIMICHI GREEN PRO CONCENTRATE** does not migrate through the soil and is not translocated in plants. **To ensure satisfactory control, plant leaves must be**



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thoroughly and uniformly covered with the spray solution. **MIRIMICHI GREEN PRO CONCENTRATE** does not provide any residual weed control in soil to affect germinating weed seeds.

#### **Mixing and Application Instructions:**

For use, **MIRIMICHI GREEN PRO CONCENTRATE** is diluted with water to the specified concentration for effective control of the undesirable vegetation. Apply using standard methods of liquid herbicide application. Dilution must be in accordance with label instructions. Do not apply this product through any type of irrigation system.

**A 10% v/v dilution is recommended for most weed control situations** and based on the results, applicators may increase or decrease spray concentrations as discussed in the following text and tables to obtain better control or to reduce herbicide use.

**The degree of dilution for application is based on the concentration of active ingredient needed for the size of vegetation to be suppressed or the rate of herbicidal effect desired. The larger the vegetation, the higher the concentration (less dilution of MIRIMICHI GREEN PRO CONCENTRATE) required for rapid action. See required concentration for variously sized weeds and grasses in Dosage and Application Rates Section. Hard to control or suppress weeds (perennial weeds and some grasses) may require several applications for complete control.**

Spray equipment options include hand-held, boom sprayers, pressure sprayers and hose-end sprayers. Spray nozzles that produce a uniform spray will give maximum coverage of the leaves and improved weed control. **MIRIMICHI GREEN PRO CONCENTRATE** is completely soluble in water and when uniformly mixed, no additional mixing or agitation is required.

#### **Application Precautions:**

- Do not apply to weeds when wet from dew, rain or irrigation.
  - Do not irrigate within 2 hours after application
  - Do not apply if rainfall is expected within 2 hours.
- During application, some foaming may occur; however, weed control is unaffected if the foam is deposited on the plant surface and is not blown away as drift. Foaming can be reduced by using the minimum spray pressure required for a uniform application to the target weeds. Use low spray pressure to reduce foaming and avoid contact with desirable plants. Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds.

#### **Mixing:**

Fill sprayer tank with half the required amount of water, add the full amount of **MIRIMICHI GREEN PRO CONCENTRATE** to be used (see Dilution Factors below), then fill the sprayer tank with the remainder of the water required for the desired final concentration. Since **MIRIMICHI GREEN PRO CONCENTRATE** is completely soluble in water and when uniformly dispersed in water, continuous mixing or agitation is not required.

#### **Broadcast Application with Field Sprayer Boom Equipment**

The amount of weed vegetation will determine the spray volume required for complete coverage of undesired plants (weeds). Weed vegetation conditions that affect spray coverage are number of weeds present, leaf shape, weed size and weed species. For weeds of over 1 inch height do not use less than 30 gal/acre. Large weeds of 12 to 18 inch height may require 80 to 125 gal/acre or more for control.



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### Hand-Held Equipment

Thorough saturation of the foliage and stems is required for control, but stop sprays when run-off from weed leaves occurs. Use low spray pressure to reduce foaming and avoid contact with desirable plants. Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds.

### Directed Spray Equipment

Use a shielded sprayer to prevent spray contact on desirable plants. Avoid spray contact of green plant stems or green bark of young trees and shrubs.

**NOTE:** In areas of hard water, the final mixture may appear milky. This condition does not change the effectiveness of the treatment. Some visible foam may appear on the leaves as the plants are sprayed. Overspray or drift onto desirable plants is usually not a serious problem because leaves and stems require a thoroughly wet spray coverage for significant injury. Repeat applications as often as necessary to obtain desired control.

### Dosage and Application Rates:

For general weed and grass control, rates are based on the size of the plants and/or the desired speed of kill. The larger the plants, the higher the dosage rates needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown.

Apply **MIRIMICHI GREEN PRO CONCENTRATE** spray solutions only when weed surfaces are dry.

The rate table presents the suggested percent volume/volume solutions of **MIRIMICHI GREEN PRO CONCENTRATE** to use for application as follows:

- Use a 6 to 8 % V/V **MIRIMICHI GREEN PRO CONCENTRATE** spray solution for control of annual weeds of 1 inch height or less and for control of liverworts and mosses.
- Use an 8 to 10% V/V **MIRIMICHI GREEN PRO CONCENTRATE** spray solution for control of annual weeds over 1 inch height and up to 4 inch height.
- Use a 10 to 13% V/V **MIRIMICHI GREEN PRO CONCENTRATE** spray solution for weeds over 4 inch height and for hard to control weeds.
- A 15% V/V **MIRIMICHI GREEN PRO CONCENTRATE** spray solution is the maximum labeled rate. Use this rate for hard to control perennial weeds or extremely dense weed growth.

Repeat spray applications as necessary to obtain the desired control or suppression of weeds from newly germinated weed seeds and regrowth from roots or stems.

### RATE TABLE

Final Spray Volume (gallons)	Amount of <b>MIRIMICHI GREEN PRO CONCENTRATE</b> for Percent V/V (Volume/Volume) Solution				
	6%	8%	10%	13%	15%
1	8 fl oz	10 fl oz	13 fl oz	1 pt	1.2 pt
2	1 pt	1.3 pt	1.3 pt	2 pt	2.4 pt
5	2.5 pt	3.3 pt	4 pt	5 pt	6 pt
10	5 pt	6.5 pt	1 gal	1.3 gal	1.5 gal
20	1.3 gal	1.6 gal	2 gal	2.6 gal	3.0 gal



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I. Weeds controlled or suppressed by MIRIMICHI GREEN

PRO CONCENTRATE:

COMMON NAMES: TAXONOMIC NAMES

### Broadleaf Weeds:

Algae *Gloeocapsa magma*

Bittercress, hairy *Cardamine hirsuta*

Chickweed, common *Stellaria media*

Chickweed, mouse-ear *Cerastium vulgatum*

Cocklebur, common *Xanthium strumarium*

Corn spurry *Spergula arvensis*

Cudweed, purple *Gnaphalium purpureum*

Groundsel *Senecio spp.*

Lambsquarters, common *Chenopodium album*

Liverwort *Machantia spp.*

Marestail or Horseweed rosettes *Conyza canadensis*

Morningglory, annual *Ipomoea spp.*

Moss *Bryophyta*

Mustards *Brassica spp.*

Oxalis or Woodsorrel *Oxalis stricta*

Pansy, wild *Viola tricolor*

Plantain *Plantago spp.*

Pigweed, smooth and redroot *Amaranthus spp.*

Mallow, roundleaved *Malva spp.*

Moneywort *Lysimachia nummularia*

Shepherdspurse *Capsella bursa-pastoris*

Sorrel, sheep *Rumex acetosella*

Spurge, spotted *Euphorbia maculata*

Field pennycress *Thlaspi arvense*

Velvetleaf *Abutilon theophrasti*

### Grass and Other Weeds:

Bentgrass, colonial *Agrostis tenuis*

Bluegrass, annual *Poa annua*

Crabgrass, large *Digitaria sanguinalis*

Fescue, creeping red *Festuca rubra*

Fescue, hard *Festuca ovina*

Nimblewill *Muhlenbergia scheberi*

Onion, wild *Allium canadense*

Ryegrass, perennial *Lolium perenne*

Star-of-Bethlehem *Ornithogalum nutans*

### II. Weeds Moderately Difficult to Control<sup>1</sup>

Bermudagrass (Wireweed) *Cynodon dactylon*

Bindweed, field *Convolvulus arvensis*

Dandelion *Taraxacum officinale*

Nutsedge, yellow *Cyperus esculentus*

Ragweed, common *Ambrosia artemisiifolia*

<sup>1</sup>Use 13 to 15% V/V MIRIMICHI GREEN PRO CONCENTRATE for control or suppression

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store container in cool place until used. Store at temperatures above 32° F.

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

#### **Container Disposal:**

**Nonrefillable Containers:** Do not reuse or refill this container. Offer for recycling if available.

**Clean container promptly after emptying.**

#### **Nonrefillable container equal to or less than 50 lbs or 5 gals:**

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 ¼ 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.

#### **Nonrefillable Container greater than 50 lbs or 5- 55 gals:**

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and



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forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Refillable Container (50 lbs or larger):** Refill this container with this pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. . Repeat this rinsing procedure two more times. Dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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Manufactured under the Authority of: Mirimichi Green, LLC 6195 Woodstock Cuba Rd. Millington, TN 38052 901-259-4920

For MSDS, scientific information, and pricing, contact Mirimichi Green Express at our website, [www.mirimichigreen.com](http://www.mirimichigreen.com) or call us at 910-602-1681