



# EMERION 7000 CONCENTRATE

## Weed & Grass Control

**Kills 39 Different Weeds and Grass • Works in Cooler Temperatures**

**Results in Minutes!!!  
Kills in Hours**

KEEP OUT OF REACH OF CHILDREN  
**WARNING** See back panel for additional precautionary statements.

Active Ingredient:  
Ammonium Nonanoate .... 40.0 wt. %  
Other Ingredients..... 60.0 wt. %  
Total..... 100.0 wt. %

Contains 3.3 lbs. Ammonium Nonanoate per US Gallon

**Ag** Agro Green

NET CONTENTS 32 FL OZ (946 mL)

FOR CONTACT SPRAY CONTROL OR BURNDOWN OF WEEDS AND GRASSES FOR HOMES AND GARDENS

### Non-selective Herbicide

#### Active ingredient:

Ammonium Nonanoate. . . . .	40.0 wt.%
Other ingredients. . . . .	60.0 wt.%
Total. . . . .	100.00 wt.%

**EMERION™ 7000 CONCENTRATE** contains 3.3 lbs. of ammonium nonanoate per US gallon

**KEEP OUT OF REACH OF CHILDREN**

## WARNING "AVISO"

**"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.)"**

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

# EMERION™ 7000 CONCENTRATE

**EMERGENCY NUMBER FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL POISON CONTROL CENTER 1-800-222-1222.**

Have the product container or label with you when calling a poison control center or doctor.

This product is protected by U. S. Patent No. 6,323,156; EPA Reg. No. 87663-1; EPA Establishment No. 72038-DE-001, 06574-KY-001. Lot No. PF26A1

Net Contents: 32 FL OZ (946 ml)

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Warning:** Causes substantial, but temporary eye irritation. Do not get in eyes or on clothing. Wear goggles. Harmful if inhaled. Avoid breathing spray mist. Causes moderate skin irritation. Avoid contact with skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS

**For terrestrial uses:** This pesticide is toxic to fish and aquatic invertebrates. To protect the

environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, or gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

### 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 Handling:

**If empty: Non-refillable** – Do not reuse or refill this container. Offer for recycling if available.

**If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

### DIRECTIONS FOR USE

**It is a violation of Federal law to use this**

*Directions for use continued on page 2*

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 State/Tribal agency responsible for pesticide regulation.

## METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS

### General Instructions:

**EMERION™ 7000 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. **EMERION™ 7000 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.

**EMERION™ 7000 CONCENTRATE** is non-volatile and water soluble pesticide for foliar application with 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 **EMERION™ 7000 CONCENTRATE** diluted with

water. **EMERION™ 7000 CONCENTRATE** effect on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is normally unaffected by temperature.

**EMERION™ 7000 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.

**EMERION™ 7000 CONCENTRATE** does not migrate through the soil and is not translocated in plants. **To ensure satisfactory control, plant leaves must be thoroughly and uniformly covered with the spray solution. EMERION™ 7000 CONCENTRATE** does not provide any residual weed control in soil to affect germinating weed seeds.

### Mixing and Application Instructions:

**Mixing:** Fill hand held sprayer tank with half the required amount of water, add the full amount of **EMERION™ 7000 CONCENTRATE** to be used (see Dilution Rate Table), then fill the sprayer tank with the remainder of the water required for the desired final concentration and mix well. Since **EMERION™ 7000 CONCENTRATE** is completely soluble in water and when uniformly dispersed in water, continuous mixing or agitation is not required. A 12% 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 Dilution Rate Table 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 (lower dilution) required for rapid action. See required concentration for variously sized weeds and grasses in Dosage and Application Rates Section. Hard to suppress weeds (deep-rooted perennials and some grasses) may require one or more later applications for complete control.

### 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.

### Application with 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.

**NOTE:** In areas of hard water, the final mixture may appear milky. This condition does not change the effectiveness of the treatment. A clearly visible foam will appear on the leaves as the plants are sprayed. Overspray or drift onto desirable plants is usually not a serious problem because of the need for thorough leaf coverage for control. Repeat application 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 **EMERION™ 7000 CONCENTRATE** spray solutions only when weed surfaces are dry.

The Dilution Rate Table presents the suggested percent volume/volume solutions of **EMERION™ 7000 CONCENTRATE** to use for application as follows:

- Use a 6 to 8 % V/V **EMERION™ 7000 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 **EMERION™ 7000 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 **EMERION™ 7000 CONCENTRATE** spray solution for weeds over 4 inch height and for hard to control weeds.
- A 15% V/V **EMERION™ 7000 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.

**DILUTION RATE TABLE**

FINAL SPRAY VOLUME		1 GALLON	2 GALLONS
<b>AMOUNT OF EMERION™ 7000 CONCENTRATE FOR PERCENT V/V (VOLUME/VOLUME) SOLUTION</b>			
WEAKER SOLUTION    STRONGER SOLUTION	6% (1" WEEDS OR LESS)	1/2 PT (8 FL OZ)	1 PT
	8% (1" - 4" WEEDS)	10 FL OZ	1 PT + 3 OZ
	10% (1" - 4" WEEDS)	13 FL OZ	1 PT + 10 OZ
	13% (WEEDS ABOVE 4")	1 PT	2 PT
	15% (WEEDS ABOVE 4")	1 PT + 3 OZ	1 QT + 6 OZ

**Use Methods** – Determine the weed control situation and select the use method required as follows:

- A) **Vegetative Burndown:** Broadcast spray for weed control for seedbed preparation to control weeds prior to seeding or transplanting. Spot sprays may be used in crops, ornamentals, pastures and turf.
- B) **Directed Sprays:** Spray nozzle type or configuration for directed spray to prevent spray contact on the foliage or green stems or bark. Directed spray applications to area between plastic mulch strips and staked crops for weed control.
- C) **Preemergence Spray Before Seeds Germinate and Emerge, and Before Perennial Plants, Tubers, Bulbs or Seed Pieces Sprout and Emerge:** Make application before new growth emerges.
- D) **Dormant or Post Harvest Spray:** Apply after desirable annual plants are removed to kill weeds and residual green growth of the plants. Apply to dormant crops such as turf.
- E) **Sucker Control, Pruning and Trimming:** Direct sprays to kill small tender basal suckers in trees.
- F) **Desiccation and Harvest Aid:** Apply only when root, tuber or bulb vegetable is ready to harvest and green leaves or weeds interfere with harvest. Spray over the plants and weeds for rapid desiccation of green plant growth to facilitate harvest.
- G) **Building and Premise Uses:** Apply to weeds in walkways, driveways, parking areas and around buildings or structures. Spot sprays may be applied to open areas and rights-of-ways.

## PESTS

### I. Weeds controlled or suppressed by **EMERION™ 7000 CONCENTRATE:**

COMMON NAMES	TAXONOMIC NAMES
<b>Broadleaf Weeds:</b>	
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.

COMMON NAMES	TAXONOMIC NAMES
<b>Broadleaf Weeds:</b>	
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

COMMON NAMES	TAXONOMIC NAMES
<b>Broadleaf Weeds:</b>	
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	Thiaspi arvense
Velvetleaf	Abutilon theophrasti

COMMON NAMES	TAXONOMIC NAMES
<b>Grass and Other Weeds:</b>	
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>

COMMON NAMES	TAXONOMIC NAMES
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 EMERION™ 7000 CONCENTRATE for control or suppression

## Garden Uses and Methods of Application\*

Crop Group	Crops	Use Methods
Root Tuber and Perennial Vegetables	Asparagus, artichoke, beet, carrot, ginger, horseradish, parsnip, potato, radish, rutabaga, sweet potato, turnip and yam	A, B, C, D, F**
Bulb vegetables	Garlic, leek, onion and shallot	A, B, C, F
Leafy Vegetables	Celery, cilantro, cress, endive, fennel, lettuce, parsley, rhubarb, spinach, Swiss chard	A, B
Cole or Brassica Crops	Broccoli, brussel sprouts, cabbage, cauliflower, collards, kale, kohlrabi, mustard and turnip greens	A, B, C
Legume Vegetables	Beans (Phaseolus spp.: black, green, kidney, lima, mung, navy, pinto, snap and wax), (Vigna spp.: black-eyed, Chinese longbean, cowpea and southern pea), peas (Pisum spp.: garden, green, sugar and snow peas), soybeans	A, B, C
Fruiting Vegetables	Eggplant, okra, pepper, (bell, chili, sweet), pimento, and tomato	A, B, C
Cucurbits and Melons	Cucumber, gourd, muskmelon, cantaloupe, pumpkin, squash, and watermelon	A, B, C
Citrus	Grapefruit, kumquat, lemon, lime, orange, tangerine and tangelo	A, B
Pome Fruit	Apple, crabapple, pear and quince	A, B, E
Stone fruit	Apricot, cherry, nectarine, peach, plum and prune	A, B, E
Small Fruit and Grapes	Blackberry, blueberry, boysenberry, cranberry, currant, dewberry, elderberry, grape (all types), loganberry, olallieberry, raspberry and strawberry	A, B, C, E
Nuts	Almond, brazil nut, chestnut, filbert, macadamia, pecan, pistachio and walnut	A, B, E
Tropical and Other Fruit	Avocado, banana, coconut, date, fig, guava, kiwi, mango, olive, persimmon, papaya and banana	A, B, E
Forages and Pastures (Forage or Seeds)	Alfalfa, clovers, trefoil, vetch, bromegrass, fescue, bluegrass, lespedeza, ryegrass, sudangrass, timothy, range grasses. and crops grown for livestock feed	A, C, D
Herbs and Spices	Anise, basil, Caraway, chive, cumin, curry, dill, fennel, oregano, mints, rosemary, sage, savory, sweet bay, tarragon, thyme and wintergreen	A, B, C, D

\* Refer to the General Instructions section for Use Methods description

\*\* Harvest Aid and Desiccation approved for root and tuber crops in this crop group

### **Buildings and Premise Uses and Methods of Application\***

<b>Group</b>	<b>Crops</b>	<b>Use Methods</b>
Turf, Flowers, Container, Bedding and Landscape Plants	Turfgrass (maintenance, sod or seed production), bedding plants, flowers and ornamental plants	A, B, C, D, E, F
Trees and Shrubs	Landscape trees and evergreen shrubs,	A, B, E
Greenhouse and Indoor Use	All crops, plants and structures	A, B, C, G
Buildings, Driveways, Walkways and Other Structures	Benches, decks, equipment, floors, roofs, wall, walks and evaporative cooling pads	G

\* Refer to the General Instructions section for Use Methods description

For non-medical emergencies or spills, see **EMERION™ 7000 CONCENTRATE** SDS or call CHEMTREC at 800-424-9300.

### **Terms and Conditions of Use:**

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

### **Warranty and Disclaimer Notice:**

To the extent consistent with applicable law, EMERY OLEOCHEMICALS, LLC, makes no warranty or guarantee of any kind, expressed or implied concerning the effects of use of this product, other than those specified on this label. Buyers or users accept all responsibility for results due to misuse or improper handling of this product.

### **Inherent Risks of Use:**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to the label instructions (including adverse conditions noted on the label, such as unfavorable temperatures, wind, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of EMERY OLEOCHEMICALS, LLC or the seller. All such risks shall be assumed by the buyer.

### **Limitation of Remedies:**

The exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at EMERY OLEOCHEMICALS, LLC's election, one of the following:

- 1) Refund of purchase price paid by buyer or user for product bought,  
or
- 2) Replacement of amount of product used.

To the extent allowable by state law, EMERY OLEOCHEMICALS, LLC shall not be liable for losses or damages resulting from handling or use of this product unless EMERY OLEOCHEMICALS, LLC is promptly notified of such loss or damage in writing. In no case shall EMERY OLEOCHEMICALS, LLC be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of EMERY OLEOCHEMICALS, LLC or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

### **Produced for:**

**EMERY OLEOCHEMICALS, LLC**  
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