

70299-25

3/12/2012

1/8



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Avenue NW  
Washington, DC 20460

EPA Reg. Number: **70299-25**  
Date of Issuance: **MAR 12 2012**

Term of Issuance: **UNCONDITIONAL**

Name of Pesticide Product: **AXXE Home and Garden Herbicide**

**NOTICE OF PESTICIDE:**  
 **Registration**  
 **Reregistration**  
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):  
**BioSafe Systems, LLC**  
**22 Meadow Street**  
**East Hartford, CT 06108**

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

This registration does not eliminate the need for continual reassessment of the pesticide. If the EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c) (5) when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Registration Number to read **EPA Reg. No. "70299-25"** before this product is released for shipment.
3. Submit two (2) copies of the final printed labeling before you release the product for shipment. Refer to the A- 79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

**A stamped copy of the label is enclosed for your records.**

Signature of Approving Official:  
*W. Michael McDavit*  
W. Michael McDavit, Associate Director,  
Biopesticides and Pollution Prevention Division

Date: **MAR 12 2012**

2/8

# AXXE Home and Garden Herbicide

**FOR ORGANIC GARDENING**  
**Non-selective Herbicide**

**FOR HOMEOWNER USE**

For contact spray control or burndown of weeds and grasses for ornamentals, turf, landscapes, interiorscapes, greenhouses, non-crop areas on residential sites.

**NOT FOR FOOD USE**

**ACTIVE INGREDIENTS:** Ammonium Nonanoate..40.00%

**OTHER INGREDIENTS:**..... 60.00%

**TOTAL:**..... 100.00%

AXXE Home and Garden Herbicide 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	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information on AXXE Home and Garden Herbicide, call the National Pesticides Information Center at 1-800-858-7378, 6:30AM to 4:30PM Pacific Time (PT), seven days a week. During other times, call the Poison Control Center at 1-800-222-1222.

This product is protected by U. S. Patent No. 6,323,156

**EPA Registration No. (70299-EL )**  
**EPA Establishment No. 064784-OK-001**

Batch Code \_\_\_\_\_

**ACCEPTED**

**Produced for:**

BioSafe Systems, LLC , 22 Meadow St., East Hartford, CT 06108  
(888) 273-3088

Net Contents: 1 pint, 1 quart, 1 gal & 2.5 gal

**MAR 12 2012**

*Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under  
EPA Reg. No. 70299-25*

*70299-25*

**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 only:** 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, 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. This product is toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product if bees are visiting the treatment area.

**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 State/Tribal agency responsible for pesticide regulation.

**METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS**

**General Instructions:**

AXXE Home and Garden Herbicide 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. AXXE Home and Garden Herbicide 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.

AXXE Home and Garden Herbicide is non-volatile and water soluble for foliar application in 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 AXXE Home and Garden Herbicide diluted with water. AXXE Home and Garden Herbicide effect on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is normally unaffected by temperature.

AXXE Home and Garden Herbicide 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.

AXXE Home and Garden Herbicide does not migrate through the soil and is not translocated in plants. Plant leaves must be thoroughly and uniformly covered with the spray solution to ensure satisfactory control. AXXE Home and Garden Herbicide does not provide any residual weed control in soil to affect germinating weed seeds.

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

For use, AXXE Home and Garden Herbicide is diluted with water to the specified concentration for effective control of the undesirable vegetation. Dilution must be in accordance with label instructions. Do not apply this product through any type of irrigation system. Spray equipment options include hand-held and hose-end sprayers. Spray nozzles that produce a uniform spray will give maximum coverage of the leaves and improved weed control. AXXE Home and Garden Herbicide is completely soluble in water and when uniformly mixed, no additional mixing or agitation is required.

A 10 -13% volume to volume (V/V) dilution (13 -16 fl. oz. per gallon of water ) 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. See required concentration for variously sized weeds and grasses in Application Rates Section. Larger weeds, perennial weeds and some grasses may require several applications for complete control.

#### **Application Precautions:**

- Do not apply to weeds when wet from dew, rain or water.
- Do not water 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 AXXE Home and Garden Herbicide 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 AXXE Home and Garden Herbicide is completely soluble in water and when uniformly dispersed in water, continuous mixing or agitation is not required.

#### **Hand-Held Equipment**

Thorough saturation of the foliage and stems is required for control. 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.

**Hose End Sprayer**

Follow use directions on manufacturers hose end sprayer. Attach AXXE Home and Garden Herbicide hose end sprayer to the end of a garden hose and turn on water. Set hose-end sprayer to "Mix" setting. Spray weeds until spray runs off leaves. Turn water off and detach hose-end sprayer when not in use.

**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. Repeat applications as often as necessary to obtain desired control.

**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 application rates needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Apply AXXE Home and Garden Herbicide spray solutions only when weed surfaces are dry.

The rate table presents the suggested percent volume/volume (V/V) solutions of AXXE Home and Garden Herbicide to use for application as follows:

- Use a 6 to 8 % V/V AXXE Home and Garden Herbicide 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 AXXE Home and Garden Herbicide spray solution for control of annual weeds over 1 inch height and up to 4 inch height.
- Use a 10 to 13% V/V AXXE Home and Garden Herbicide spray solution for weeds over 4 inch height and for hard to control weeds.
- A 15% V/V AXXE Home and Garden Herbicide 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 AXXE Home and Garden Herbicide 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

<u>Height of Plants to be Controlled</u>	<u>Spray Solution (% V/V)</u>
1 inch or less	6 to 8%
1 to 3 inches	8 to 10%
Above 3 inches	10 to 13%

**NOTE:** Do not use spray concentrations higher than 15% in a pressure sprayer since unacceptable foaming and bubble formation may occur at the nozzle heads.

**Use Methods**

Determine the weed control situation and select the use method required as follows:

**A. Vegetative Burndown:** Broadcast spray for weed control for no-till planting or seedbed preparation to control weeds prior to seeding or transplanting. Spot sprays may be used in ornamentals and turf.

**B. Directed and shielded sprays:** Spray nozzle type or configuration for directed spray or a shield placed around the nozzle to prevent spray contact on the foliage or green stems or bark. Directed/shielded spray applications to area between plastic mulch strips and staked crops for weed control.

**PESTS**

I. Weeds controlled or suppressed by AXXE Home and Garden Herbicide:

<b>COMMON NAMES</b>	<b>TAXONOMIC NAMES</b>
<b>Broadleaf Weeds:</b>	
Algae	<i>Gloeocapsa magma</i>
Bittercress, hairy	<i>Cardamine hirsuta</i>
Chickweed, common	<i>Stellaria media</i>
Chickweed, mouse-ear	<i>Cerastium vulgatum</i>
Cocklebur, common	<i>Xanthium strumarium</i>
Corn spurry	<i>Spergula arvensis</i>
Cudweed, purple	<i>Gnaphalium purpureum</i>
Groundsel	<i>Senecio spp.</i>
Lambsquarters, common	<i>Chenopodium album</i>
Liverwort	<i>Machantia spp.</i>
Marestail or Horseweed rosettes	<i>Conyza canadensis</i>
Morningglory, annual	<i>Ipomoea spp.</i>
Moss	<i>Bryophyta</i>
Mustards	<i>Brassica spp.</i>
Oxalis or Woodsorrel	<i>Oxalis stricta</i>
Pansy, wild	<i>Viola tricolor</i>
Plantain	<i>Plantago spp.</i>
Pigweed, smooth and redroot	<i>Amaranthus spp.</i>
Mallow, roundleaved	<i>Malva spp.</i>

Moneywort  
Shepherdspurse  
Sorrel, sheep  
Spurge, spotted  
Field pennycress  
Velvetleaf

*Lysimachia nummularia*  
*Capsella bursa-pastoris*  
*Rumex acetosella*  
*Euphorbia maculata*  
*Thlaspi arvense*  
*Abutilon theophrasti*

**Grass and Other Weeds:**

Bentgrass, colonial  
Bluegrass, annual  
Crabgrass, large  
Fescue, creeping red  
Fescue, hard  
Nimblewill  
Onion, wild  
Ryegrass, perennial  
Star-of-Bethlehem

*Agrostis tenuis*  
*Poa annua*  
*Digitaria sanguinalis*  
*Festuca rubra*  
*Festuca ovina*  
*Muhlenbergia scheberi*  
*Allium canadense*  
*Lolium perenne*  
*Ornithogalum nutans*

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

Bermudagrass (Wireweed)  
Bindweed, field  
Dandelion  
Nutsedge, yellow  
Ragweed, common

*Cynodon dactylon*  
*Convolvulus arvensis*  
*Taraxacum officinale*  
*Cyperus esculentus*  
*Ambrosia artemisiifolia*

<sup>1</sup>Use 13 to 15% V/V AXXE Home and Garden Herbicide for control or suppression.

**STORAGE AND DISPOSAL**

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

**Pesticide storage:**

Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

**Pesticide Disposal:**

**If empty:** Do not reuse this container. Place in trash or offer for recycling if available.

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

**Container Disposal:**

Nonrefillable container. Do not reuse or refill this container. If empty: place in trash or offer for recycling if available.

For non-medical emergencies or spills, see AXXE Home and Garden Herbicide MSDS or call CHEMTREC at 800-424-9300.

**WARRANTY**

This material conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. To the fullest extent permitted by law, the seller shall not be liable for timing, unfavorable temperatures, water conditions, presence of other materials, method of application, weather, watering practices, nature of soil, disease problem, condition of crop, incompatibility with other chemicals, pre-existing conditions and other conditions influencing the use of this product. To the fullest extent permitted by law, buyer assumes all risks associated with the use, storage, or handling of this material not in strict accordance with directions given herewith. To the fullest extent permitted by law, NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE.

**Optional Label Claims:**

- Non-residual herbicide
- Non-selective herbicide
- For control or burn down of a broad spectrum of weeds, mosses on contact
- For control of unwanted vegetation
- Easy to use
- Fast acting
- Weed and grass killer
- Acts on contact
- Broad spectrum
- Visible results within 24 hours
- Inactivated on contact with soil
- Will not leach through the soil to harm desirable plants
- Leaves no harmful residues
- Non - selective herbicide
- Effective weed and grass control
- Grass and weed knockdown
- Eliminates vegetation and leaves area weed free
- Ideal for spot weed control around ornamental trees, bushes and flowers
- Ideal for trimming and edging along walkways, driveways, trees and landscaping beds
- For control or burndown of a broad spectrum of weeds on contact
- For non-selective control of herbaceous broadleaf weeds, and grasses
- For control or burndown of weeds and grasses
- Controls annual and perennial weeds
- Controls grasses and broadleaf weeds
- For weed control in and around the home and gardens
- ~~For organic production~~
- For organic gardening
- ~~For use in organic production.~~
- ~~For organic use~~