



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

**OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION**

March 30, 2018

Donna Bishel  
Director of Regulatory Affairs  
BioSafe Systems, LLC.  
22 Meadow Street  
East Hartford, CT 06108

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Minor  
Edits to the Directions for Use Information on the Master Label  
Product Name: AXXE Broad Spectrum Herbicide  
EPA Registration Number: 70299-23  
Application Date: 03/21/2018  
OPP Decision Number: 539522

Dear Ms. Bishel:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false

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or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Elyse Bilardo by phone at (703) 347-0182 or via email at [bilardo.elyse@epa.gov](mailto:bilardo.elyse@epa.gov).

Sincerely,

A handwritten signature in blue ink, reading "Andrew C. Bryceland". The signature is fluid and cursive, with the first name "Andrew" and last name "Bryceland" clearly legible.

Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure: Master Label

**ACCEPTED**

03/30/2018

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 70299-23

**MASTER LABEL**

# **AXXE Broad Spectrum Herbicide**

## **Non-selective Herbicide**

**Sublabel A: For Agricultural and Commercial Use**  
**Sublabel B: For Residential Use**

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

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

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

AXXE Broad Spectrum 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.)*

| <b>FIRST AID</b>              |                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 Broad Spectrum 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.** 70299-23

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

**EPA Establishment No.** 72038-DE-001, 089402-OK-003, 067441-IL-001, 70299-CT-001,  
064784-OK-001, 082521-GA-001

**Produced for:**

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

Net Contents: 1 quart, 1, 2.5, 5, 30, 55 and 275 gallon

**Sublabel A: For Agricultural and Commercial Use**

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| <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                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |
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## 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, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Coveralls worn over short-sleeve shirt and short pants
- Socks and chemical resistant footwear
- Chemical resistant gloves
- Protective eyewear
- When mixing and loading wear a chemical resistant apron

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

**For terrestrial uses only:** This pesticide is toxic to fish and aquatic invertebrates. 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. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## 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.

### 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 4 hours.

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

- Coveralls worn over short-sleeve shirt and short pants
- Socks and chemical resistant footwear
- Chemical resistant gloves
- Protective eyewear

### NON-AGRICULTURAL 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, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

## METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS

### General Instructions:

AXXE Broad Spectrum 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 Broad Spectrum 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.

Use AXXE Broad Spectrum Herbicide as a shielded spray application to control listed insects in row middles of staked crops and row crops, between rows covered in plastic mulch, and areas around the base of trees and vine crops in orchards. Application is only to be made directly to the soil surface.

AXXE Broad Spectrum Herbicide 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 AXXE Broad Spectrum Herbicide diluted with water. AXXE Broad Spectrum 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 Broad Spectrum 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 Broad Spectrum Herbicide 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.** AXXE Broad Spectrum Herbicide does not provide any residual weed control in soil to affect germinating weed seeds.

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

For use, AXXE Broad Spectrum 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, boom sprayers, pressure sprayers and hose-end sprayers. Spray nozzles that produce a uniform spray will give maximum coverage of the leaves, and thus highest activity. AXXE Broad Spectrum 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 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 AXXE Broad Spectrum 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 Broad Spectrum Herbicide 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.

#### **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. A clearly visible foam will appear on the leaves as the plants are sprayed. 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 rate needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Apply AXXE Broad Spectrum Herbicide spray solutions only when weed surfaces are dry.

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

- Use a 6 to 8 % V/V AXXE Broad Spectrum 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 Broad Spectrum 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 Broad Spectrum Herbicide spray solution for weeds over 4 inch height and for hard to control weeds.

- A 15% V/V AXXE Broad Spectrum 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 #1**

| Final Spray Volume (gallons) | Amount of AXXE Broad Spectrum 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   | 1.6pt    | 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 |

Height of Plants  
to be Controlled

1 inch or less

1 to 4 inches

Above 4 inches

Spray  
Solution (% V/V)

6 to 8%

8 to 10%

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 crops, ornamentals, pastures 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.

**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 crops are harvested to kill weeds and residual green growth of the crop plants. Apply to dormant crops such as alfalfa or turf.

**E. Sucker Control, Pruning and Trimming:** Direct sprays to kill small tender basal suckers in crops such as brambles and fruit trees.

**F. Desiccation and Harvest Aid:** Apply only when crop is ready to harvest and green crop leaves or weeds interfere with harvest. Spray as broadcast application over the crop and weeds for rapid desiccation of green plant growth to facilitate harvest. Apply as a harvest aid for cotton, potatoes and other root, tuber and bulb vegetables.

**G. Industrial and Building Uses:** Apply to weeds in walkways, driveways, parking areas and around buildings or structures. Broadcast or spot sprays may be applied to open field areas and rights-of-ways.

## PESTS

I. Weeds controlled or suppressed by AXXE Broad Spectrum Herbicide:

### COMMON NAMES

### TAXONOMIC NAMES

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#### Broadleaf Weeds:

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|                                 |                         |
|---------------------------------|-------------------------|
| 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 AXXE Broad Spectrum Herbicide for control or suppression

## Crop Uses and Methods of Application\*

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

| 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<br><br><sup>1</sup> Harvest Aid and Dessication approved for root and tuber crops in this crop group | A, B, C, D, F <sup>1</sup> |
| 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, Brussels 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                 |
| Agronomic Crops and Cereal Grains      | Barley, buckwheat, canola, corn (field, popcorn and sweet), cotton, cowpea, flax, millet, oat, peanut, rice, rye, safflower, sorghum, soybean, sugarcane, sunflower and wheat<br><sup>1</sup> Harvest Aid and Desiccation approved for cotton, soybean and wheat | A, B, C, F <sup>1</sup> |
| 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              |
| Beverage and Specialty Crops           | Cocoa, coffee, hops, tea, tobacco and jojoba                                                                                                                                                                                                                     | A, B, E                 |

#### Non-Crop Uses and Methods of Application\*

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

| Non-Crop Group                                         | Crops                                                                                                                                                                                                                                                                                                               | Use Methods      |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 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                                       | Christmas trees, forest and commercial trees, landscape trees, nursery production of trees and shrubs                                                                                                                                                                                                               | A, B, E          |
| Greenhouse and Indoor Use                              | All crops, plants and structures                                                                                                                                                                                                                                                                                    | A, B, C, G       |
| Non-Crop, Industrial, Parks and Public Areas           | Farmstead, homestead, fallow land, storage areas, schools, paved areas, rights-of-ways (road, railroad, utilities, etc.), parking lots, recreational areas (athletic fields, campgrounds, golf courses, playgrounds, etc.), walks, industrial sites (tank farms, lumberyard, warehouses and other structures, etc.) | A, B, G          |
| Buildings, Driveways, Walkways and Other Structures    | Benches, decks, equipment, floors, roofs, wall, walks and evaporative cooling pads                                                                                                                                                                                                                                  | G                |
| Dry Aquatic Sites,                                     | Applications must be made 72 hours prior to                                                                                                                                                                                                                                                                         | A, G             |

|                                                |                                                                                                                                                                                                                                                 |  |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Dry Drainage Systems, and Around Aquatic Sites | reflooding of dry aquatic sites. Dry ditches, dry canals, ditch banks, and for use above the water line or after drawdown of agricultural irrigation water and ditch systems, industrial ponds and disposal systems, and impounded water areas. |  |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

## **USE INFORMATION**

### **Harvesting Aid**

- **Cotton Harvest Aid**

- **Usage:** AXXE Broad Spectrum Herbicide is recommended for use to desiccate the cotton plant green foliage prior to harvesting. Only apply if bolls to be harvested have matured. Make application when 70 to 80 percent of the bolls are open, or according to the State Agricultural Extension Service guidelines in the use area.
- **Mixing:** A final spray volume of 15 gallons per acre is recommended to ensure complete coverage of cotton foliage. Use 3.4 gallons of AXXE Broad Spectrum Herbicide in 15 gal (22.7% V/V) for high fertilizer or extreme weather conditions. Use 6.7 gallons of AXXE Broad Spectrum Herbicide in 15 gal (44.7% V/V) for dense foliage.
- **Application:** Avoiding spray drift at the application site is the responsibility of the applicator and the grower. Use nozzles that produce a medium droplet size at a spray pressure of less than 30 psi. Make applications in the early morning if windy conditions are expected later in the day. An evening application may be appropriate to maximize spray coverage in the lower canopy, but only if temperature inversion conditions are not present. Rank growth cotton may require two applications.

- **Potato Harvest Aid**

- **Usage:** AXXE Broad Spectrum Herbicide is recommended for use to desiccate the potato plant green foliage prior to harvesting. Apply when the potato plants begin natural senescence.
- **Mixing:** A final spray volume of 20 gallons per acre is recommended to ensure complete coverage of the foliage. The minimum recommended dilution is 4.0 gallons of AXXE Broad Spectrum Herbicide in the final spray volume of 20 gal (20% V/V). Use 6.5 gallons of AXXE Broad Spectrum Herbicide in 20 gal (32.5% V/V) for dense foliage use.
- **Application:** Apply using a broadcast sprayer.

### **Sucker Control**

- **Tobacco sucker control agent for use on flue-cured tobacco.**

- **Usage:** AXXE Broad Spectrum Herbicide is recommended for control of the tobacco plant suckers. The first application should occur prior to topping, when 50% – 60% of the plants have a visible button. Use during topping to remove any suckers that are greater than 1 inch in size. Repeat treatment in three to five days after the initial application and in five to seven days thereafter as needed.

- **Equipment:** Use a three nozzle (TG3-TG5-TG3) per row or equivalence sprayer operating at a low pressure (20 to 25 psi). Nozzle selection, pressure, and delivery volume are critical for proper droplet size, which leads to good stalk rundown and coverage.
- **Mixing:** A final spray volume of 50 gallons per acre is recommended to ensure complete coverage. Dilute 1.75 – 2.0 gallons of AXXE Broad Spectrum Herbicide to a final spray volume of 50 gallons (3.5% - 4% V/V).
- **Application:** Coverage of leaf axils and stalk rundown are essential for proper contact. To reduce the risk of leaf burn, apply product when humidity is low and leaf axils are fully exposed (10 a.m. - 6 p.m. on sunny days). Do not apply if the plants are wilted and temperature exceeds 90°F, wet with rain or heavy dew, severely stressed by drought, or during windy conditions causing turnover the tobacco leaf.

#### • Trees and Vines Sucker Control

- **Usage:** AXXE Broad Spectrum Herbicide is recommended to control tender basal growth on woody trees, foliage growth on vines and excessive cane growth in brambles. Apply to unwanted vegetative parts before suckers become hardened and woody. For use on nut trees such as Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory Nut, Macadamia Nut (bush nut), Pecan, Pistachio, Walnut (black and English)
- **Mixing:** Dilute 1 pint of AXXE Broad Spectrum Herbicide to a final spray volume of 1 gallon (13% V/V).
- **Application:** Spray to completely wet and run off undesired foliage. Do not spray on desired plant parts. AXXE Broad Spectrum Herbicide is a non-selective herbicide and will kill green leafy tissue in both weeds and crops. Best results are achieved in warm/hot weather with sunshine with temperatures above 60°F.

### Weed Control

#### • Row Middles

- **Usage:** AXXE Broad Spectrum Herbicide is a non-selective herbicide, use only on undesired weeds and grasses. Do not spray on desired plants. Weeds should be growing vigorously and must not be covered with soil or heavy dew.
- **Equipment:** Directed and Shielded Sprayers and spray nozzle type or configuration to prevent spray contact on the foliage or green stems or bark. Do not use boomless jets or misting-machines.
- **Mixing:** A final spray volume of 50 gallons per acre is recommended to ensure complete coverage. Dilution 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. Add 3 – 6.5 gals of AXXE Broad Spectrum Herbicide per 50 gal of final spray volume (6% - 13% V/V) in the spray tank and mix to get even mixing. Use only clean water free from clay, silt and algae as these will tend to clog the spray nozzles. Water collected from roofs, bore water, dam water and water from creeks may be used provided it does not contain any sediment. Refer to the Rate Table #1 for the proper dilution needed.

- **Application:** Direct shielded spray applications to area between plastic mulch strips and staked crops. Full coverage of the weeds leafy tissue is critical for control. Spray solutions only when weed surfaces are dry. Repeat treatment as necessary to obtain the desired control or suppression of weeds from newly germinated weed seeds and regrowth from roots or stems.

- **Ornamental & Nursery and Orchard Crops**

- **Usage:** AXXE Broad Spectrum Herbicide is a non-selective herbicide recommended for weed control in seedbeds or for site preparation in non-crop sites. Apply prior to emergence of plants from seed, Perennial Rootstocks, Corms and Bulbs. Ideal for nursery and orchards, where weed control between rows is desired. For spot treatments in crop and pasture situations. Do not apply if desired new growth or after crop emerges from soil or damage will occur.
- **Equipment:** Use directed and Shielded Sprayers. Select nozzle/pressure combination that deliver large coarse droplets (solid cones or flat fans) and avoid combinations that generate fine particles or mist.
- **Mixing:** Dilute 1 pint of AXXE Broad Spectrum Herbicide to a final spray volume of 1 gallon (13% V/V).
- **Application:** Apply to control weeds in seedbeds and growth sites prior to emergence of desirable plants. Apply around trees, shrubs, turfgrasses or desirable vegetation making sure to avoid material contact with foliage and green bark. Repeat applications may be necessary. Reseeding or transplanting can occur in treated areas as soon as desirable levels of weed control are obtained.

**Insect Control** *(Not Approved For Use In California)*

- **Usage:** AXXE Broad Spectrum Herbicide is used for the control of Adelgids, Aphids, Earwigs, Grasshoppers, Lacebugs, Mites, Mealybugs, Plantbugs, Psyllids, Sawfly Larvae, Scales, Tent Caterpillars, Thrips, Whiteflies, and Woolly Aphids.
- **Equipment:** Hand-held ultra-low volume controlled droplet applicators (CDA units), directed and shielded sprayers and spray nozzle type or configuration to prevent spray contact on the foliage or green stems or bark. Select nozzle / pressure combination that deliver large coarse droplets (solid cones or flat fans) and avoid combinations that generate fine particles or mist.
- **Mixing:** Dilute AXXE Broad Spectrum Herbicide using Rate Table #2 to determine the appropriate use rate for your pest situation.
- **Application:** Apply spray directly to the soil surface to the area between plastic mulch strips and row middles of staked crops, row crops, and areas around the base of trees and vine crops in orchards, to control listed pests. Make applications when insects first appear.



**RATE TABLE #2**

| Final Spray Volume (gallons) | Amount of AXXE Broad Spectrum 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   | 1.6 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 |

Insect Pressure

Low  
Medium  
High

Spray Solution (% V/V)

6 to 8%  
8 to 10%  
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.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container in a cool, dry well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING (Containers equal to or less than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

**CONTAINER HANDLING (Containers greater than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

For non-medical emergencies or spills, see AXXE Broad Spectrum Herbicide SDS or call CHEMTREC at 800-424-9300.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of BIOSAFE SYSTEMS LLC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold BIOSAFE SYSTEMS and Seller harmless for any claims relating to such factors, to the extent consistent with applicable law.

BIOSAFE SYSTEMS warrants that this product conforms to the *chemical* description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS MAKES NO WARRANTIES OF MERCHANTABILITY FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, in no event shall BIOSAFE SYSTEMS or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BIOSAFE SYSTEMS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF BIOSAFE SYSTEMS OR SELLER, THE REPLACEMENT OF THE PRODUCT.

BIOSAFE SYSTEMS and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of BIOSAFE SYSTEMS.

**Sublabel B: For Residential Use**

# AXXE Broad Spectrum Herbicide

For contact spray control or burndown of weeds and grasses for homes and gardens

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

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

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

AXXE Broad Spectrum 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 Broad Spectrum 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.** 70299-23

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

**EPA Establishment No.** 72038-DE-001, 089402-OK-003, 067441-IL-001, 70299-CT-001, 064784-OK-001, 082521-GA-001

**Produced for:**

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

Net Contents: 1 quart, 1 gallon, 2.5 gallon

## 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, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Coveralls worn over short-sleeve shirt and short pants
- Socks and chemical resistant footwear
- Chemical resistant gloves
- Protective eyewear
- When mixing and loading wear a chemical resistant apron

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

**For terrestrial uses only:** This pesticide is toxic to fish and aquatic invertebrates. 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. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State/Tribal agency responsible for pesticide regulation.

## METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS

### General Instructions:

AXXE Broad Spectrum 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 Broad Spectrum 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 Broad Spectrum Herbicide 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 AXXE Broad Spectrum Herbicide diluted with water. AXXE Broad Spectrum 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 Broad Spectrum 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 Broad Spectrum Herbicide 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.** AXXE Broad Spectrum Herbicide does not provide any residual weed control in soil to affect germinating weed seeds.

### Mixing and Application Instructions:

For use, AXXE Broad Spectrum 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 Broad Spectrum 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 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 AXXE Broad Spectrum 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 Broad Spectrum Herbicide 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.

#### **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. 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 rate needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Apply AXXE Broad Spectrum Herbicide spray solutions only when weed surfaces are dry.

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

- Use a 6 to 8 % V/V AXXE Broad Spectrum 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 Broad Spectrum 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 Broad Spectrum Herbicide spray solution for weeds over 4 inch height and for hard to control weeds.
- A 15% V/V AXXE BROAD SPECTRUM 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 Broad Spectrum 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   | 1.6 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 |

Height of Plants  
to be Controlled

1 inch or less

1 to 4 inches

Above 4 inches

Spray  
Solution (% V/V)

6 to 8%

8 to 10%

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 crops, ornamentals, pastures 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.



**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 crops are harvested to kill weeds and residual green growth of the crop plants. Apply to dormant crops such as alfalfa or turf.

**E. Sucker Control, Pruning and Trimming:** Direct sprays to kill small tender basal suckers in crops such as brambles and fruit trees.

**F. Desiccation and Harvest Aid:** Apply only when crop is ready to harvest and green crop leaves or weeds interfere with harvest. Spray as broadcast application over the crop and weeds for rapid desiccation of green plant growth to facilitate harvest. Apply as a harvest aid for cotton, potatoes and other root, tuber and bulb vegetables.

**G. Industrial and Building Uses:** Apply to weeds in walkways, driveways, parking areas and around buildings or structures. Broadcast or spot sprays may be applied to open field areas and rights-of-ways.

## PESTS

I. Weeds controlled or suppressed by AXXE Broad Spectrum Herbicide:

### 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  
Field pennycress  
Velvetleaf

Euphorbia maculata  
Thlaspi arvense  
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 AXXE Broad Spectrum Herbicide for control or suppression

### Crop Uses and Methods of Application\*

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

| 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<br><br><sup>1</sup> Harvest Aid and Dessication approved for root and tuber crops in this crop group | A, B, C, D, F <sup>1</sup> |
| 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, Brussels 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                 |
| Agronomic Crops and Cereal Grains      | Barley, buckwheat, canola, corn (field, popcorn and sweet), cotton, cowpea, flax, millet, oat, peanut, rice, rye, safflower, sorghum, soybean, sugarcane, sunflower and wheat<br><sup>1</sup> Harvest Aid and Desiccation approved for cotton, soybean and wheat | A, B, C, F <sup>1</sup> |
| 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              |
| Beverage and Specialty Crops           | Cocoa, coffee, hops, tea, tobacco and jojoba                                                                                                                                                                                                                     | A, B, E                 |

### Non-Crop Uses and Methods of Application\*

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

| Non-Crop Group                                         | Crops                                                                                                                                                                                                                                                                                                               | Use Methods      |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 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                                       | Christmas trees, forest and commercial trees, landscape trees, nursery production of trees and shrubs                                                                                                                                                                                                               | A, B, E          |
| Greenhouse and Indoor Use                              | All crops, plants and structures                                                                                                                                                                                                                                                                                    | A, B, C, G       |
| Non-Crop, Industrial, Parks and Public Areas           | Farmstead, homestead, fallow land, storage areas, schools, paved areas, rights-of-ways (road, railroad, utilities, etc.), parking lots, recreational areas (athletic fields, campgrounds, golf courses, playgrounds, etc.), walks, industrial sites (tank farms, lumberyard, warehouses and other structures, etc.) | A, B, G          |
| Buildings, Driveways,                                  | Benches, decks, equipment, floors, roofs, wall, walks and evaporative cooling pads                                                                                                                                                                                                                                  | G                |

MASTER LABEL

**AXXE Broad Spectrum Herbicide**; EPA Reg. No. 70299-23

Clean Copy label (V8) dated February 14, 2018

Notification

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|                                                                   |                                                                                                                                                                                                                                                                                             |      |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Walkways and Other Structures                                     |                                                                                                                                                                                                                                                                                             |      |
| Dry Aquatic Sites, Dry Drainage Systems, and Around Aquatic Sites | Applications must be made 72 hours prior to reflooding of dry aquatic sites. Dry ditches, dry canals, ditch banks, and for use above the water line or after drawdown of agricultural irrigation water and ditch systems, industrial ponds and disposal systems, and impounded water areas. | A, G |

### 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 Handling:**

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 Broad Spectrum Herbicide SDS 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 for Sublabels A and B:

- Non-selective, non-residual herbicide.
- For control or burn down of a broad spectrum of weeds, mosses on contact.
- For use as a harvest aid and crop desiccant on a variety of crops.
- For control of unwanted vegetation in greenhouses, nurseries, and in other areas as walkways, around buildings, and industrial areas.
- For agricultural use
- 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
- Will not translocate in the plant
- Leaves no harmful residues
- Residues not harmful to children and pets
- For home and garden use
- 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 in rights of way and industrial sites
- For non-selective control of herbaceous broadleaf weeds, and grasses in crop areas, pastures, and fallow land
- For control of mosses, lichens, and cryptogams
- For control or burndown of weeds and grasses
- Controls annual and perennial weeds
- Controls grasses and broadleaf weeds
- For weed control in and around buildings, walkways, driveways and industrial areas
- For use as a harvest aid and crop desiccant on a variety of crops
- For contact spray control or burndown of weeds and grasses for food crops, field crops, pastures, ornamentals, turf, landscapes, interiorscapes, greenhouses, non-crop areas on farmsteads and around buildings and industrial sites.
- For control of Adelgids, Aphids, Earwigs, Grasshoppers, Lacebugs, Mealybugs, Mites, Plant Bugs, Psyllids, Sawfly Larvae, Scales, Tent Caterpillars, Whiteflies, and Woolly Aphids (*Not approved for use in California*)
- For control of Thrips
- For use between plastic mulch strips and row middles of staked crops, row crops, and areas around the base of trees and vine crops in orchards.