



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

February 06, 2026

Donna Bishel  
dbishel@biosafesystems.com  
BIOSAFE SYSTEMS, LLC

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Revision to add "waterproof or chemical-resistant gloves" to PPE section and reduce application rate for weed height above 4 inches.  
Product Name: AXXE FX  
Admin Number: 70299-34  
EPA Receipt Date: 10/31/2025  
Action Case Number: 00682472

Dear Donna Bishel:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, 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.

The label submitted with the application has been stamped "Accepted Only Indicated Revisions Reviewed" and is enclosed for your records.

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 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 statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 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 questions, please contact James Parker via email at [parker.james@epa.gov](mailto:parker.james@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Gina Burnett".

Gina Burnett, Senior Regulatory Advisor  
BPB, BPPD  
Office of Pesticide Programs

02/06/2026

# MASTER LABEL

## AXXE FX

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

70299-34

No label revisions other than those indicated were reported to the Agency.

### Sublabel A: Agricultural Uses

### Sublabel B: Non-Agricultural Uses

### Sublabel C: Residential Uses

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

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

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

AXXE FX contains 3.3 lbs. of ammonium nonanoate per US gallon.

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

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

<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 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>

### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <http://npic.orst.edu>. In the event of a medical emergency, call the poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN** - Probable mucosal damage may contraindicate the use of gastric lavage.

**EPA Registration No.** 70299-34

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

**EPA Establishment No.** 067441-IL-001, 70299-NV-1, 70299-NV-2, 70299-AZ-1, 082521-GA-001, 92957-MI-001

### Manufactured by:

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

Net Contents: 1, 2.5, 5, 30, 55, 275, 330 gallons

*Note to Reviewer: Text in brackets [ ] is optional and may appear on final label. Commas and the words "and" "or" can be added to phrases to make text grammatically correct.*

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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER: CORROSIVE.** Causes irreversible eye damage. 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)**

Handlers who may be exposed to the undiluted product through mixing, loading, application, or other tasks must wear coveralls over long-sleeved shirt and long pants, chemical resistant gloves, chemical resistant footwear plus socks, and protective eyewear. Handlers who may be exposed to the dilute through application or other tasks must wear protective eyewear, **waterproof or chemical-resistant gloves**, long-sleeved shirt and long pants, and shoes plus socks. Follow manufacturer's instructions for cleaning / maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS**

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

**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:** 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:

- Long-sleeved shirt and long 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 FX is a non-selective, contact herbicide for use on undesired vegetation, weeds and grasses in and around food and non-food crop areas. Do not allow spray to contact any green plant parts of desirable plants. AXXE FX 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 will be reduced when weed growth conditions are unfavorable or when plants are mature.

For sucker control and for use as a harvest aid or crop desiccant, refer to the Sucker Control and Harvesting Aid use instructions on the label.

AXXE FX is non-volatile and water-soluble for foliar applications in tractor-powered, field-type sprayers or manual pump sprayers. Complete and uniform coverage of weeds by the spray solution is required for 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 FX. The effect of AXXE FX on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is not unaffected by temperature.

AXXE FX is a fatty acid 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 FX does not migrate through the soil and is not translocated in plants. **To ensure control, plant leaves must be thoroughly and uniformly covered with the spray solution.** AXXE FX does not provide any residual weed control in soil to affect germinating weed seeds.

##### **Application Precautions:**

Keep people, pets, and livestock off treated areas until spray solution has dried. Do not apply this product through any type of irrigation system. Do not apply this product aerially. Spray droplet size should be adjusted to minimize drift and to allow application to the target area only. 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.

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

USE AXXE FX to control undesired vegetation, weeds and grasses. Apply AXXE FX in accordance with label instructions, using standard methods of liquid herbicide application. Do not apply this product through any type of irrigation system. Use a 1.5–8% v/v dilution for most weed control situations. Based on the results, applicators may increase spray concentrations in order to achieve maximum weed control.

**The degree of dilution for application is based on the concentration of active ingredient needed for the size of vegetation to be suppressed or the rate of herbicidal effect desired. The larger the vegetation, the higher the concentration (lower dilution) required for rapid action. See required concentration for various sized weeds and grasses in the Application Rates Section. Hard to suppress weeds (deep-rooted perennials and some grasses) may require one or more later applications for complete control.**

Spray equipment options include hand-held, boom sprayers, pressure sprayers and hose-end sprayers. Spray nozzles that produce a uniform spray will give maximum coverage of the leaves, and thus highest activity.

During application, some foaming will 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.

**Mixing:**

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

**Compatibility:**

Always pre-determine the compatibility of labeled tank mixes of AXXE FX with other products in advance of application. When tank mixing, add formulation in the following sequence: compatibility agent (if needed), wetting agent and soluble powders, flowable liquids, emulsifiable concentrates and AXXE FX. Mix only with other labeled products.

**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 of final spray volume. Large weeds of 12 – 18 inch in height may require 80 – 125 gal/acre of final spray volume or more for control.

**Hand-Held Equipment:**

Thorough saturation of the foliage and stems is required for control but stop sprays prior to run-off from weed leaves. Creating run-off from the leaves will result in the reduction of active material contact with the leaves. Good contact is required for control. Use low spray pressure to reduce foaming and avoid contact with desirable plants.

**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. Do not allow spray to drift onto desirable plants; however, this is usually not a serious problem because of the need for thorough leaf coverage for control of weeds. Repeat application 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 rate needed to ensure maximum herbicidal activity. Also, the

higher the concentration, the quicker the plants wilt and turn brown. Apply AXXE FX spray solutions only when weed surfaces are dry. Spray for coverage of unwanted vegetation.

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

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

#### **When Tank Mixing AXXE FX With Systemic Herbicide(s):**

Use a 1.5 – 3 % V/V (Volume/Volume) application rate of AXXE FX alongside systemic herbicide's labeled rates in a tank mix for control of weeds, liverworts and mosses. Use the higher rate for larger, perennial and hard to control weeds. Use the rate table below for tank mixes with systemic herbicides.

**Rate Table #1**

Final Spray Volume (gallons of water)	AMOUNT OF AXXE FX FOR PERCENT V/V (VOLUME/VOLUME) SOLUTION								
	1.5%	3%	6%	8%	10%	13%	15%	20%	32.5%
1	2 fl. oz.	4 fl. oz.	8 fl. oz.	10 fl. oz.	13 fl. oz.	1 pt.	1.2 pt.	1.6 pt.	2.6 pt.
2	4 fl. oz.	8 fl. oz.	1 pt.	1.3 pt.	1.6 pt.	2 pt.	2.4 pt.	3.2 pt.	5.2 pt.
5	10 fl. oz.	1.25 pt.	2.5 pt.	3.3 pt.	4 pt.	5 pt.	6 pt.	1 gal.	1.6 gal.
10	1.25 pt.	2.5 pt.	5 pt.	6.5 pt	1 gal.	1.3 gal.	1.5 gal.	2 gal.	3.25 gal.
15	1.8 pt.	3.6 pt.	7.2 pt	1.2 gal.	1.5 gal.	2 gal.	2.25 gal.	3 gal.	4.9 gal.
20	2.6 pt.	5.2 pt.	1.3 gal.	1.6 gal.	2 gal.	2.6 gal.	3.0 gal.	4 gal.	6.5 gal.
30	3.6 pt.	7.2 pt.	1.8 gal.	2.4 gal.	3 gal.	4 gal.	4.5 gal.	6 gal.	9.75 gal.
50	6 pt.	1.5 gal.	3 gal.	4 gal.	5 gal.	6.5 gal.	7.5 gal.	10 gal.	16.25 gal.

<u>Height of Weeds to be Controlled</u>	<u>Spray Solution (% V/V)</u>
1 inch or less	6 – 8%
1 to 4 inches	8 – 10%
Above 4 inches	10 – 13 <b>45%</b>

#### **Weeds controlled or suppressed by AXXE FX:**

COMMON NAMES	[TAXONOMIC NAMES]
<b>Broadleaf Weeds:</b>	
Algae	[ <i>Gloeo capsma 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	Senecio spp.
Lambsquarters, common	Chenopodium album
Liverwort	Machantia spp.
Marestail or Horseweed rosettes	Conyza canadensis
Morning glory, 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:**

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Bentgrass, colonial	[ Agrostis tenuis
Bluegrass, annual	Poa annua
Crabgrass, large	Digitaria sanguinalis
Fescue, creeping red	Festuca rubra
Fescue, hard	Festuca ovina
Nimblewill	Muhlenbergia schreberi
Onion, wild	Allium canadense
Ryegrass, perennial	Lolium perenne
Star-of-Bethlehem	Ornithogalum nutans ]

#### **Weeds Moderately Difficult to Control\*:**

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Bermudagrass (Wireweed)	[ Cynodon dactylon
Bindweed, field	Convolvulus arvensis
Dandelion	Taraxacum officinale
Nutsedge, yellow	Cyperus esculentus
Ragweed, common	Ambrosia artemisiifolia ]

\*Use 13 – 15% V/V AXXE FX for control or suppression.

#### **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 fruit trees, nut trees, field crops and on vines (grapes).

**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, sesame, and other root, tuber and bulb vegetables.

**G. Weed Control Around Walkways And Buildings:** Apply to unwanted vegetation 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.

#### Crop Use Sites and Use Methods

Refer to the Use Methods section for use descriptions and precautions.

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  1Harvest Aid and Dessimation 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, sesame, sorghum, soybean, sugarcane, sunflower and wheat  1Harvest Aid and Desiccation approved for cotton, sesame, 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, sesame, sweet bay, tarragon, thyme and wintergreen	A, B, C, D

Beverage and Specialty Crops	Cocoa, coffee, hops, tea, tobacco and jojoba	A, B, E
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### Non-Food Crops

Refer to the General Instructions section for Use Methods description.

Non-Food Crop	Use Site	Use Methods
Turf, Flowers, Ornamentals, Bedding and Landscape	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 trees and shrubs	A, B, E
Greenhouses, Grow Rooms and Indoor Areas	All crops, plants, and structures	A, B, C, G
Fallow Land, Forages and Pastures, Uncultivated Land	All undesired vegetation	A, B, G
Farmstead Uses	Farmstead areas, storage areas, structures, sheds, packing houses, around walkways and buildings, benches, decks, equipment, floors, roofs, and walls	
Dry Aquatic Sites, Dry Drainage Systems, and Around 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, ponds and disposal systems, and impounded water areas. Applications must be made 72 hours prior to reflooding of dry aquatic sites.	A, G

### USE INFORMATION

#### Harvesting Aid

- **Cotton Harvest Aid**

- **Usage:** AXXE FX 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. The minimum recommended dilution is 1.7 gallons of AXXE FX in the final spray volume of 15 gal (11.3% V/V). Use 3.4 gallons of AXXE FX in 15 gal (22.7% V/V) for high fertilizer or extreme weather conditions. Use 6.7 gallons of AXXE FX 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 FX 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 FX in the

final spray volume of 20 gal (20% V/V). Use 6.5 gallons of AXXE FX in 20 gal (32.5% V/V) for dense foliage use.

- **Application:** Apply using a broadcast sprayer.

- **Sesame Harvest Aid**

- **Usage:** AXXE FX is recommended for use to desiccate green sesame foliage prior to harvesting. Only apply if capsules to be harvested have matured. Make applications when approximately five nodes are present above the uppermost mature capsule.
- **Mixing:** AXXE FX should be applied at a rate of 22.7% v/v (3.4 gallons per acre, with an application volume of 15 gallons per acre (GPA)) to ensure adequate coverage of sesame foliage.
- **Application:** Check local weather conditions prior to applications of AXXE FX. Do not make Applications of AXXE FX during adverse weather conditions, including high wind speeds and periods of temperature inversions. Apply AXXE FX using spray nozzles which produce a medium droplet size.

## Sucker Control

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

- **Usage:** AXXE FX 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 – 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 FX 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 of the tobacco leaf.

- **Trees and Vines Sucker Control**

- **Usage:** AXXE FX 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 FX 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 FX 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 FX 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:** 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. 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 rate 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 FX 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 FX 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 FX 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.

#### STORAGE AND DISPOSAL

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

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

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

**Container Handling:**

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

**Clean container promptly after emptying (liquid formulations).**

**Non-refillable container equal to or less than 5 gals:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full of 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.

**Non-refillable container greater than 5 gals:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full of 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. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Refillable container 5 gals to bulk:** Refill this container with this pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application

equipment or a mix tank. Fill the container about 10 percent full of water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

#### **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 LLC and Seller harmless for any claims relating to such factors, to the fullest extent consistent with applicable law.

TO THE FULLEST EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS LLC 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 fullest 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 LLC, and Buyer and User assume the risk of any such use. TO THE FULLEST EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS LLC MAKES NO WARRANTIES OF MERCHANTABILITY FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the fullest extent consistent with applicable law, BIOSAFE SYSTEMS LLC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE FULLEST EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BIOSAFE SYSTEMS LLC 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 LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

BIOSAFE SYSTEMS LLC 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, To the fullest extent consistent with applicable law, may not be modified except by written agreement signed by a duly authorized representative of BIOSAFE SYSTEMS LLC.

## Sublabel B: Non-Agricultural Uses

# AXXE FX

## For Non-Agricultural Use

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

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

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

AXXE FX contains 3.3 lbs. of ammonium nonanoate per US gallon.

### KEEP OUT OF REACH OF CHILDREN

### DANGER – PELIGRO

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

#### FIRST AID

If in eyes	<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>
If inhaled	<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 treatment advice.</li></ul>
If on skin or clothing	<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>

#### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <http://npic.orst.edu>. In the event of a medical emergency, call the poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN** - Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 70299-34

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

EPA Establishment No. 067441-IL-001, 70299-NV-1, 70299-NV-2, 70299-AZ-1, 082521-GA-001, 92957-MI-001

**Manufactured by:**

BioSafe Systems, LLC,

22 Meadow St.,

East Hartford, CT 06108

(888) 273-3088

Net Contents: 1, 2.5, 5, 30, 55, 275, 330 gallons

*Note to Reviewer: Text in brackets [ ] is optional and may appear on final label. Commas and the words "and" "or" can be added to phrases to make text grammatically correct.*

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER: CORROSIVE.** Causes irreversible eye damage. 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)**

Handlers who may be exposed to the undiluted product through mixing, loading, application, or other tasks must wear coveralls over long-sleeved shirt and long pants, chemical resistant gloves, chemical resistant footwear plus socks, and protective eyewear. Handlers who may be exposed to the dilute through application or other tasks must wear protective eyewear, **waterproof or chemical-resistant gloves**, long-sleeved shirt and long pants, and shoes plus socks. Follow manufacturer's instructions for cleaning / maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. If no such instructions for washables, use detergent 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:** 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.

### **METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS**

#### **General Instructions:**

AXXE FX is a non-selective, contact herbicide used to control undesired vegetation, weeds and grasses in and around turf, ornamentals, landscapes, interiorscapes, rights-of-way, parks, golf courses, industrial areas, around building structures and similar areas. Do not allow spray to contact any green plant parts of desirable plants. AXXE FX 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 will be reduced when weed growth conditions are unfavorable or when plants are mature.

AXXE FX is non-volatile and water-soluble for foliar applications in tractor-powered, field-type sprayers or manual pump sprayers. Complete and uniform coverage of weeds by the spray solution is required for 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 FX. The effect of AXXE FX on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is not unaffected by temperature.

AXXE FX is a fatty acid 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 FX does not migrate through the soil and is not translocated in plants. **To ensure control, plant leaves must be thoroughly and uniformly covered with the spray solution.** AXXE FX does not provide any residual weed control in soil to affect germinating weed seeds.

**Application Precautions:**

Keep people, pets, and livestock off treated areas until spray solution has dried. Do not apply this product through any type of irrigation system. Do not apply this product aerially. Spray droplet size should be adjusted to minimize drift and to allow application to the target area only. 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.

**Mixing Instructions and Application Rates:**

USE AXXE FX to control undesired vegetation, weeds and grasses. Apply AXXE FX in accordance with label instructions, using standard methods of liquid herbicide application. Do not apply this product through any type of irrigation system. Use a 1.5–8% v/v dilution for most weed control situations. Based on the results, applicators may increase spray concentrations in order to achieve maximum weed control.

**The degree of dilution for application is based on the concentration of active ingredient needed for the size of vegetation to be suppressed or the rate of herbicidal effect desired. The larger the vegetation, the higher the concentration (lower dilution) required for rapid action. See required concentration for various sized weeds and grasses in the Application Rates Section. Hard to suppress weeds (deep-rooted perennials and some grasses) may require one or more later applications for complete control.**

Spray equipment options include hand-held, boom sprayers, pressure sprayers and hose-end sprayers. Spray nozzles that produce a uniform spray will give maximum coverage of the leaves, and thus highest activity.

During application, some foaming will 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.

**Mixing:**

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

**Compatibility:**

Always pre-determine the compatibility of labeled tank mixes of AXXE FX with other products in advance of application. When tank mixing, add formulation in the following sequence: compatibility agent (if needed), wetting agent and soluble powders, flowable liquids, emulsifiable concentrates and AXXE FX. Mix only with other labeled products.

**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 of final spray volume. Large weeds of 12 – 18 inch in height may require 80 – 125 gal/acre of final spray volume or more for control.

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

Thorough saturation of the foliage and stems is required for control but stop sprays prior to run-off from weed leaves. Creating run-off from the leaves will result in the reduction of active material contact with the leaves. Good contact is required for control. Use low spray pressure to reduce foaming and avoid contact with desirable plants.

#### **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. Do not allow spray to drift onto desirable plants; however, this is usually not a serious problem because of the need for thorough leaf coverage for control of weeds. Repeat application 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 rate needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Apply AXXE FX spray solutions only when weed surfaces are dry. Spray for coverage of unwanted vegetation.

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

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

#### **When Tank Mixing AXXE FX With Systemic Herbicide(s):**

Use a 1.5 – 3 % V/V (Volume/Volume) application rate of AXXE FX alongside systemic herbicide's labeled rates in a tank mix for control of weeds, liverworts and mosses. Use the higher rate for larger, perennial and hard to control weeds. Use the rate table below for tank mixes with systemic herbicides.

**Rate Table #1**

<b>Final Spray Volume (gallons of water)</b>	<b>AMOUNT OF AXXE FX FOR PERCENT V/V (VOLUME/VOLUME) SOLUTION</b>								
	<b>1.5%</b>	<b>3%</b>	<b>6%</b>	<b>8%</b>	<b>10%</b>	<b>13%</b>	<b>15%</b>	<b>20%</b>	<b>32.5%</b>
1	2 fl. oz.	4 fl. oz.	8 fl. oz.	10 fl. oz.	13 fl. oz.	1 pt.	1.2 pt.	1.6 pt.	2.6 pt.
2	4 fl. oz.	8 fl. oz.	1 pt.	1.3 pt.	1.6 pt.	2 pt.	2.4 pt.	3.2 pt.	5.2 pt.
5	10 fl. oz.	1.25 pt.	2.5 pt.	3.3 pt.	4 pt.	5 pt.	6 pt.	1 gal.	1.6 gal.

10	1.25 pt.	2.5 pt.	5 pt.	6.5 pt.	1 gal.	1.3 gal.	1.5 gal.	2 gal.	3.25 gal.
15	1.8 pt.	3.6 pt.	7.2 pt.	1.2 gal.	1.5 gal.	2 gal.	2.25 gal.	3 gal.	4.9 gal.
20	2.6 pt.	5.2 pt.	1.3 gal.	1.6 gal.	2 gal.	2.6 gal.	3.0 gal.	4 gal.	6.5 gal.
30	3.6 pt.	7.2 pt.	1.8 gal.	2.4 gal.	3 gal.	4 gal.	4.5 gal.	6 gal.	9.75 gal.
50	6 pt.	1.5 gal.	3 gal.	4 gal.	5 gal.	6.5 gal.	7.5 gal.	10 gal.	16.25 gal.

<b>Height of Weeds to be Controlled</b>	<b>Spray Solution (% V/V)</b>
1 inch or less	6 – 8%
1 to 4 inches	8 – 10%
Above 4 inches	10 – 13 45%

**Weeds controlled or suppressed by AXXE FX:**

**COMMON NAMES**

**[ TAXONOMIC NAMES ]**

**Broadleaf Weeds:**

Algae	[ <i>Gloeo capsma 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>
Morning glory, 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	<i>Lysimachia nummularia</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Sorrel, sheep	<i>Rumex acetosella</i>
Spurge, spotted	<i>Euphorbia maculata</i>
Field pennycress	<i>Thlaspi arvense</i>
Velvetleaf	<i>Abutilon theophrasti ]</i>

**Grass and Other Weeds:**

Bentgrass, colonial	[ <i>Agrostis tenuis</i>
Bluegrass, annual	<i>Poa annua</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>
Fescue, creeping red	<i>Festuca rubra</i>
Fescue, hard	<i>Festuca ovina</i>
Nimblewill	<i>Muhlenbergia scheberi</i>
Onion, wild	<i>Allium canadense</i>
Ryegrass, perennial	<i>Lolium perenne</i>
Star-of-Bethlehem	<i>Ornithogalum nutans ]</i>

### **Weeds Moderately Difficult to Control\***

Bermudagrass (Wireweed)	[ Cynodon dactylon
Bindweed, field	Convolvulus arvensis
Dandelion	Taraxacum officinale
Nutsedge, yellow	Cyperus esculentus
Ragweed, common	Ambrosia artemisiifolia ]

\*Use 13 – 15% V/V AXXE FX for control or suppression.

### **Use Methods:**

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

- A. Vegetative Burndown:** Broadcast spray for weed control to control weeds prior to seeding or transplanting. Spot sprays may be used around ornamentals, turf, uncultivated land and other areas.
- 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 plants are harvested to kill weeds and residual green growth of the plants.
- E. Sucker Control, Pruning and Trimming:** Direct sprays to kill small tender basal suckers in trees, fruit and nut trees, brambles and vines (grapes).
- F. Structural and Building Uses:** Apply to unwanted vegetation on walkways, walls, floors, roofs, driveways, parking areas, and around buildings or structures. Broadcast or spot sprays may be applied to open field areas and rights-of-ways.

### **Non-Agricultural Use Sites**

Refer to the General Instructions section for Use Methods description.

Non-Agricultural Group	Use Site	Use Methods
Turf, Flowers, Container, Bedding and Landscape Plants	Turfgrass (maintenance, sod or seed production), bedding plants, flowers and ornamental plants that are not destined for sale	A, B, C, D, E, F
Nurseries: Trees and Shrubs	Christmas trees, forest and commercial trees and shrubs, landscape trees, nursery production of trees and shrubs that are not destined for sale	A, B, E
Greenhouses, Grow Rooms and Indoor Areas	All undesired vegetation	A, B, C, F
Uncultivated Land	All undesired vegetation	A, B, F
Non-Crop, Industrial, Private and Public Grounds	Storage areas, schools, paved areas, rights-of-ways (road, railroad, utilities, etc.), ornamental gardens, parking lots, recreational areas (athletic fields, campgrounds, golf courses, parks, playgrounds, etc.), walks, industrial sites (tank farms, lumberyards, warehouses and other structures, etc.)	A, B, E, F
Driveways, Walkways Buildings, and Other Structures	All undesired vegetation	F
Dry Aquatic Sites, Dry Drainage Systems, and Around Aquatic	Dry ditches, dry canals, ditch banks, and for use above the water line or after drawdown of water and ditch systems, industrial ponds and disposal systems, and	A, F

Sites	impounded water areas. Applications must be made 72 hours prior to reflooding of dry aquatic sites.	
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## USE INFORMATION

### Sucker Control

- **Trees and Vines Sucker Control**

- **Usage:** AXXE FX 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 FX 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 FX 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 FX 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:** 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. 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 rate needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Add 3 – 6.5 gal of AXXE FX 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 Plants, Nursery and in Orchards**

- **Usage:** AXXE FX 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 FX 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.

#### STORAGE AND DISPOSAL

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

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

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

**Container Handling:**

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

**Clean container promptly after emptying (liquid formulations).**

**Non-refillable container equal to or less than 5 gals:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full of 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.

**Non-refillable container greater than 5 gals:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full of 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. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Refillable container 5 gals to bulk:** Refill this container with this pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full of water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

#### 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 LLC and Seller harmless for any claims relating to such factors, to the fullest extent consistent with applicable law.

TO THE FULLEST EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS LLC 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 fullest 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 LLC, and Buyer and User assume the risk of any such use. TO THE FULLEST EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS LLC MAKES NO WARRANTIES OF MERCHANTABILITY FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the fullest extent consistent with applicable law, BIOSAFE SYSTEMS LLC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product.

TO THE FULLEST EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BIOSAFE SYSTEMS LLC 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 LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

BIOSAFE SYSTEMS LLC 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, To the fullest extent consistent with applicable law, may not be modified except by written agreement signed by a duly authorized representative of BIOSAFE SYSTEMS LLC.

## Sublabel C: Residential Uses

# AXXE FX

### For Residential Use

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

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

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

AXXE FX contains 3.3 lbs. of ammonium nonanoate per US gallon.

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

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

#### 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 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>

#### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <http://npic.orst.edu>. In the event of a medical emergency, call the poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN** - Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Registration No. 70299-34

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

EPA Establishment No. 067441-IL-001, 70299-NV-1, 70299-NV-2, 70299-AZ-1, 082521-GA-001, 92957-MI-001

#### Manufactured by:

BioSafe Systems, LLC,

22 Meadow St.,

East Hartford, CT 06108

(888) 273-3088

Net Contents: 16 fl. oz., 32 fl. oz, 64 fl. oz., 1 gallon

*Note to Reviewer: Text in brackets [] is optional and may appear on final label. Commas and the words "and" "or" can be added to phrases to make text grammatically correct.*

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER: CORROSIVE.** Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear. 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.

### **ENVIRONMENTAL HAZARDS**

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

### **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**

#### **Use Information:**

AXXE FX is a non-selective herbicide recommended for weed control in gardens, seedbeds, flower beds, for site preparation, and around the home. Do not apply if desired new growth or after crop emerges from soil or damage will occur. Do not spray on desired plants. Weeds should be growing vigorously and must not be covered with soil or heavy dew. Apply prior to emergence of plants from seed, Perennial Rootstocks, Corms and Bulbs.

**Application:** Apply to control weeds in seedbeds and growth sites to emergence of desirable plants. Apply around trees, shrubs, turfgrasses or desirable vegetation making sure avoid material contact with foliage and green bark. Repeat applications may be necessary. Reseeding or transplanting can occur in treated areas within two days.

#### **General Instructions:**

AXXE FX is a contact, non-selective herbicide used to control undesired vegetation, weeds and grasses in and around lawns and gardens. Spore producing plants such as mosses and liverworts are also controlled. Do not allow spray to contact any green plant parts of desirable plants. AXXE FX provides control and burndown suppression of annual and perennial broadleaf and grass weeds. The amount of burndown and the duration of weed suppression will be reduced when weed growth conditions are unfavorable or when plants are mature.

AXXE FX is a non-volatile and water-soluble pesticide for foliar applications 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 FX. The effect of AXXE FX on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is normally unaffected by temperature.

AXXE FX 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 FX 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 FX does not provide any residual weed control in soil to affect germinating weed seeds.

#### **Application Precautions:**

Keep people, pets, and livestock off treated areas until spray solution has dried. Do not apply this product through any type of irrigation system. Do not apply this product aerially. Spray droplet size should be adjusted to minimize drift and to allow application to the target area only. 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.

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

##### **Mixing:**

Fill handheld sprayer tank with half the required amount of water, add the full amount of AXXE FX to be used (see Dilution Rate Table below), then fill the sprayer tank with the remainder of the water required for the desired final concentration and mix well. Since AXXE FX is completely soluble in water and when uniformly dispersed in water, continuous mixing or agitation is not required. A 13% v/v dilution is recommended for most weed control situations and based on the results, applicators may increase or decrease spray concentrations as discussed in the rate tables to obtain better control or to reduce herbicide use.

**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 delivers large coarse droplets (solid cones or flat fans) and avoid combinations that generate fine particles or mist.

#### **Application with 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.

**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. Drift onto desirable plants should be avoided; however, this is usually not a serious problem due to the need for thorough leaf coverage for control of weeds. Repeat application as often as necessary to obtain desired control.

**The degree of dilution for application is based on the concentration of active ingredient needed for the size of vegetation to be suppressed or the rate of herbicidal effect desired. The larger the vegetation, the higher the concentration (lower dilution) required for rapid action. See required concentration for various sized weeds and grasses in Application Rates Section. Hard to suppress weeds (deep-rooted perennials and some grasses) may require one or more later applications for complete control.**

#### **Compatibility:**

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.

#### **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 rate needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Apply AXXE FX spray solutions only when weed surfaces are dry. Spray for coverage of unwanted vegetation. AXXE FX is a non-selective, post-emergent contact herbicide.

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

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

**When Tank Mixing AXXE FX With Systemic Herbicide(s):**

- Use a 1.5 – 3 % V/V (Volume/Volume) application rate of AXXE FX alongside systemic herbicide's labeled rates in a tank mix for control of weeds, liverworts and mosses. Use the higher rate for larger, perennial and for hard to control weeds. Use the rate table below for tank mixes with systemic herbicides.

**Rate Table**

Final Spray Volume (gallons of water)	Amount of AXXE FX for Percent V/V (Volume/Volume) Solution						
	1.5%	3%	6%	8%	10%	13%	15%
1	2 fl. oz.	4 fl. oz.	8 fl. oz.	10 fl. oz.	13 fl. oz.	1 pt.	1.2 pt.
2	4 fl. oz.	8 fl. oz.	1 pt.	1.3 pt.	1.6 pt.	2 pt.	2.4 pt.
5	10 fl. oz.	1.25 pt.	2.5 pt.	3.3 pt.	4 pt.	5 pt.	6 pt.
10	1.25 pt.	2.5 pt.	5 pt.	6.5 pt.	1 gal.	1.3 gal.	1.5 gal.
15	1.8 pt.	3.6 pt.	7.2 pt.	1.2 gal.	1.5 gal.	2 gal.	2.25 gal.
20	2.6 pt.	5.2 pt.	1.3 gal.	1.6 gal.	2 gal.	2.6 gal.	3.0 gal.

<u>Height of Weeds to be Controlled</u>	<u>Spray Solution (% V/V)</u>
1 inch or less	6 - 8 %
1 to 4 inches	8 – 10%
Above 4 inches	10 – 13 <b>45%</b>

Weeds controlled or suppressed by AXXE FX:

**COMMON NAMES**

**[ TAXONOMIC NAMES ]**

**Broadleaf Weeds:**

Algae	[ <i>Gloeo capsula 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	Conyza canadensis
Morning glory, 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 schreberi
Onion, wild	Allium canadense
Ryegrass, perennial	Lolium perenne
Star-of-Bethlehem	Ornithogalum nutans ]

#### **Weeds Moderately Difficult to Control\***

Bermudagrass (Wireweed)	[ Cynodon dactylon
Bindweed, field	Convolvulus arvensis
Dandelion	Taraxacum officinale
Nutsedge, yellow	Cyperus esculentus
Ragweed, common	Ambrosia artemisiifolia ]

\*Use 13 – 15% V/V AXXE FX for control or suppression.

#### **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 and around gardens, ornamental plants, pastures and turf.
- B. Directed sprays:** Spray nozzle type or configuration for directed spray to prevent spray contact on the foliage or green stems or bark. Directed spray applications to area between plastic mulch strips and staked crops for weed control.
- C. Preemergence Spray Before Seeds Germinate and Emerge, and Before Perennial Plants, Tubers, Bulbs or Seed Pieces Sprout and Emerge:** Make application to weeds before new growth emerges.
- D. Dormant or Post Harvest Spray:** Apply after desirable annual plants are removed to kill weeds and residual green growth of the plants. Apply to dormant crops such as turf.
- E. Sucker Control, Pruning and Trimming:** Direct sprays to kill small tender basal suckers in fruit trees, nut trees and on vines (grapes).
- F. Desiccation and Harvest Aid:** Apply only when root, tuber or bulb vegetable is ready to harvest and green leaves or weeds interfere with harvest. Spray over the plants and weeds for rapid desiccation of green plant growth to facilitate harvest.

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

**Garden Use Sites and Use Methods**

Refer to the Use Methods section for use descriptions and precautions.

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 <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 <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, Sudan grass, 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 Use Sites and Use Methods**

Refer to the Use Methods section for use descriptions and precautions.

<b>Non-Crop Group</b>	<b>Non-Crop Use Site</b>	<b>Use Methods</b>
Turf, Flowers, Container, Bedding and Landscape Plants and Nurseries	Turfgrass (maintenance, sod or seed production), bedding plants, flowers and ornamental plants	A, B, C, D, E, F
Trees and Shrubs	Christmas trees, landscape trees, trees and shrubs	A, B, E
Home Greenhouses, Grow Rooms and Indoor Areas	All crops, plants, and structures	A, B, C, G
Fallow Land, Uncultivated Land	All undesired vegetation	A, B, G
Non-Crop Areas	Farmstead, homestead, storage areas, paved areas, rights-of-ways, parking lots, recreational areas, walkways	A, B, G
Buildings, Driveways, Walkways and Other Structures	All undesired vegetation	G
Dry Aquatic Sites, Dry Drainage Systems, and Around Aquatic Sites	Dry ditches, dry canals, ditch banks, and for use above the water line or after drawdown of water and ditch systems, ponds and disposal systems, and impounded water areas. Applications must be made 72 hours prior to reflooding of dry aquatic sites.	A, G

### **STORAGE AND DISPOSAL**

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

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

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

**Container Handling:**

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

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

For non-medical emergencies or spills, see AXXE FX 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, B and C:**

***The following claims may appear on any label panel:***

- For contact spray control or burndown of weeds and grasses for homes and gardens
- 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
- For agricultural use
- Easy to use
- Fast acting
- Weed and grass killer
- Acts on contact
- Broad spectrum
- 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 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 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.
- Contact your BIOSAFE SYSTEMS LLC technical representative for specific applications.
- For more information: visit [<https://biosafesystems.com/>], call [888-273-3088]
- (Read full label before use) (see inside for full instructions) (always read and follow label directions)
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