70299-23_AXXE Broad Spectrum Herbicide_20220908_30_70299_.pdf

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 100%

AXXE®

BROAD SPECTRUM HERBICIDE

KEEP OUT OF REACH OF CHILDREN

WARNING "AVISO"

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

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15–20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	•Take off contaminated clothing. •Rinse skin immediately with plenty of water for 15–20 minutes. •Call a poison control center or doctor for treatment advice.
EMERGENCY NUMBER	
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL POISON CONTROL CENTER 1-800-222-1222. Have the product container or label with you when calling a poison control center or doctor.	

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

Net Contents: 1 gallon

For contact spray control or burndown of weeds and grasses

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.

BioSafe Systems®

Produced for: BioSafe Systems, LLC
22 Meadow Street East Hartford, CT 06108
1-888-273-3088

EPA Registration No. 70299-23

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

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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:

- Long-sleeved shirt and long 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: 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 Broad Spectrum Herbicide is a contact non-selective herbicide for spray application only to undesirable plant growth. For sucker control (e.g., tobacco, hazelnut, etc.) refer to specific use instructions. 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 when applied directly to the soil surface controls 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.

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 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 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. Apply using standard methods of liquid herbicide application. Dilution must be in accordance with label instructions. Do not apply this product through any type of irrigation system. A 6-8% v/v dilution is recommended for most weed control situations. Based on the results, applicators may increase spray concentrations as discussed in the following text and tables to obtain better 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 variously sized weeds and grasses in Dosage and Application Rates Section. Hard to suppress weeds (deep-rooted perennials and some grasses) may require one or more later applications for complete control.

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 requires only nominal mixing. Once mixed, no additional mixing or agitation is required.

Application Precautions:

- Do not apply to weeds when wet from dew, rain or irrigation.
- Do not irrigate within 2 hours after application
- Do not apply if rainfall is expected within 2 hours.

During application, some foaming may occur; however, weed control is unaffected if the foam is deposited on the plant surface and is not blown away as drift. Foaming can be reduced by using the minimum spray pressure required for a uniform application to the target weeds. Use low spray pressure to reduce foaming and avoid contact with desirable plants. Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds.

Mixing: Fill sprayer tank with half the required amount of water, add the full amount of 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.

Always pre-determine the compatibility of labeled tank mixes of AXXE Broad Spectrum Herbicide 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 Broad Spectrum Herbicide. 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 to 18 inch in height may require 80 to 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 may 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. 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. Drift onto desirable plants should be avoided; 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.

Dosage and Application Rates: For general weed and grass control, rates are based on the size of the plants and/or the desired speed of kill. The larger the plants, the higher the dosage rates needed to ensure maximum herbicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Apply 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 (Volume/Volume) 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, perennial and for hard to control weeds.

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%	20%	32.5%
1	8 fl. oz.	10 fl. oz.	13 fl. oz.	1 pint	1.2 pints	1.6 pints	2.6 pints
2	1 pint	1.3 pints	1.6 pints	2 pints	2.4 pints	3.2 pints	5.2 pints
5	2.5 pints	3.3 pints	4 pints	5 pints	6 pints	1 gallon	1.6 gallons
10	5 pints	6.5 pints	1 gallon	1.3 gallons	1.5 gallons	2 gallons	3.25 gallons
15	7.2 pints	1.2 gallons	1.5 gallons	2 gallons	2.25 gallons	3 gallons	4.9 gallons
20	1.3 gallons	1.6 gallons	2 gallons	2.6 gallons	3.0 gallons	4 gallons	6.5 gallons
30	1.8 gallons	2.4 gallons	3 gallons	4 gallons	4.5 gallons	6 gallons	9.75 gallons
50	3 gallons	4 gallons	5 gallons	6.5 gallons	7.5 gallons	10 gallons	16.25 gallons

Height of Plants to be Controlled	Spray Solution (%V/V)
1 inch or less	6 to 8%
1 to 4 inches	8 to 10%
Above 4 inches	10 to 13%

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 (*Not Approved For Use in California*), 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:

Broadleaf Weeds:

Common Names	Taxonomic Names
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	Thiaspi arvense
Velvetleaf	Abutilon theophrasti

Grass and Other Weeds:	
Common Names	**Taxonomic Names**
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[1]	
Common Names	**Taxonomic Names**
Bermudagrass (Wireweed)	Cynodon dactylon
Bindweed, field	Convolvulus arvensis
Dandelion	Taraxacum officinale
Nutsedge, yellow	Cyperus esculentus
Ragweed, common	Ambrosia artemisiifolia

[1]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 [1]Harvest Aid and Dessication approved for root and tuber crops in this crop group	A, B, C, D, F[1]
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

Crop Group	Crops	Use Methods
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 (*Not Approved For Use in California*), cowpea, flax, millet, oat, peanut, rice, rye, safflower, sorghum, soybean, sugarcane, sunflower and wheat [1]Harvest Aid and Desiccation approved for cotton (*Not Approved For Use in California*), soybean and wheat	A, B, C, F[1]
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 such as:	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

FARMSTEAD, BUILDINGS AND INDUSTRIAL SITES USES AND METHODS OF APPLICATION*
***Refer to the General Instructions section for Use Methods Description**

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
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

Crop Group	Crops	Use Methods
Buildings, Driveways, Walkways and Other Structures	Benches, decks, equipment, floors, roofs, wall, walks and evaporative cooling pads	G
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

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. The minimum recommended dilution is 1.7 gallons of AXXE Broad Spectrum Herbicide in the final spray volume of 15 gal (11.3% V/V). 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.

Not Approved For Use In California

- **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 of 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:** 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 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*

Usage: AXXE Broad Spectrum Herbicide is used for the control of Adelgids, Aphids, Earwigs, Grasshoppers, Lacebugs, Mites, Plantbugs, Psyllids, Sawfly Larvae, Scales, Tent Caterpillars, Thrips, Whiteflies, and Wooly 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 below 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 and are in their early larval stages. Repeat spray applications every 7 days or as needed.

**** Not Approved For Use In California***

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 pint	1.2 pints
2	1 pint	1.3 pints	1.6 pints	2 pints	2.4 pints
5	2.5 pints	3.3 pints	4 pints	5 pints	6 pt.
10	5 pints	6.5 pints	1 gallon	1.3 gallons	1.5 gallons
20	1.3 gallons	1.6 gallons	2 gallons	2.6 gallons	3.0 gallons

Insect Pressure	Spray Solution (%V/V)
Low	6 to 8%
Medium	8 to 10%
High	10 to 13%

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 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.

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.

BioSafe Systems

For additional information on AXXE® Broad Spectrum Herbicide, call us toll-free at 1.888.273.3088 or visit BioSafeSystems.com.

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AXXE®

BROAD SPECTRUM HERBICIDE

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 100%

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.

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.

FIRST AID
IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for treatment advice.
EMERGENCY NUMBER
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL POISON CONTROL CENTER 1-800-222-1222. Have the product container or label with you when calling a poison control center or doctor.

BioSafe Systems

Produced for: BioSafe Systems, LLC • 22 Meadow St.
East Hartford, CT 06108 • 1-888-273-3088

EPA Registration No. 70299-23
EPA Establishment No. 067441-IL-001, 70299-NV-2, 082521-GA-001, 92957-MI-001

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 this label, find someone to explain it to you in detail.)

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:

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

See inside booklet for additional precautionary statements and directions for use.

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

1773-1 NET CONTENTS: 1 gallon

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