

1789-32-F



BioSafe

BioSafe Weed Control

Visible Results Within 24 Hours

For Organic Gardening

**KEEP OUT OF REACH OF CHILDREN
WARNING "AVISO"**

ACTIVE INGREDIENT:

Ammonium Nonanoate.....	40.00%
Other Ingredients.....	60.00%
Total.....	100.00%

BioSafe Weed Control contains 3.3 lbs.
of ammonium nonanoate per US gallon.

32 fl. oz.

See back label for
first aid and directions for use.

FIRST AID	
If in eyes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information on BioSafe Weed Control, call the National Pesticides Information Center at 1-800-858-7378, 6:30AM to 4:30PM Pacific Time (PT), seven days a week. During other times, call the Poison Control Center at 1-800-222-1222.</p>	

BiSafe Systems

22 Meadow Street • East Hartford, CT 06108
1.888.273.3088 (toll-free)

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EPA Reg. No. 70299-25
EPA Est. No. 067441-IL-001

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

STORAGE AND DISPOSAL

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

Pesticide Storage:

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

Pesticide Disposal:

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

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

Container Disposal:

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

See inside booklet for precautionary statements and directions for use.

**For control or
burn down of a
broad spectrum
of weeds, mosses
on contact.**

BioSafe Systems...

Manufactured by:
BioSafe Systems
22 Meadow Street
East Hartford, CT 06108
1.888.273.3088 (toll-free)

EPA Reg. No. 70299-25
EPA Est. No. 067441-IL-001

A green thumb is good.
A green brain is better.™

1789-32-B

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For control or burndown of weeds and grasses.

- ✓ Ideal for spot weed control around ornamental trees, bushes and flowers.
- ✓ Ideal for trimming and edging along trees, walkways, driveways, and landscaping beds.
- ✓ Leaves no harmful residues.
- ✓ Will not leach through the soil to harm desirable plants.

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

BIOSAFE WEED CONTROL

FOR ORGANIC GARDENING

Non-selective Herbicide

FOR RESIDENTIAL USE

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

NOT FOR FOOD USE

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ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

METHODS OF USE AND GENERAL APPLICATION INSTRUCTIONS

General Instructions:

BioSafe Weed Control is a contact non-selective herbicide for spray application only to undesirable plant growth. Do not allow spray to con-

tact any green plant parts of desirable plants. BioSafe Weed Control provides control and burn-down suppression of annual and perennial broad-leaf 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.

BioSafe Weed Control is non-volatile and water soluble for foliar application in manual pump sprayers. Complete and uniform coverage of weeds by the spray solution is required for the best weed control. Plant foliage will change from a green color to brown/black necrotic tissue within one to two hours after spray application of BioSafe Weed Control diluted with water. BioSafe Weed Control effect on plant tissue may be more rapid in warm weather than in cold conditions. However, weed control is normally unaffected by temperature.

BioSafe Weed Control 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.

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

Mixing and Application Instructions:

For use, BioSafe Weed Control is diluted with water to the specified concentration for effective control of the undesirable vegetation. Dilution must be in accordance with label instructions. Do not apply this product through any type of irrigation system. Spray equipment options include hand-held and hose-end sprayers. Spray nozzles that produce a uniform spray

will give maximum coverage of the leaves and improved weed control. BioSafe Weed Control is completely soluble in water and when uniformly mixed, no additional mixing or agitation is required.

A 10 -13% volume to volume (V/V) dilution (13 -16 fl. oz. per gallon of water) is recommended for most weed control situations and based on the results, applicators may increase or decrease spray concentrations as discussed in the following text and tables to obtain better control or to reduce herbicide use. See required concentration for variously sized weeds and grasses in Application Rates Section. Larger weeds, perennial weeds and some grasses may require several applications for complete control.

Application Precautions:

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

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

Mixing:

Fill sprayer tank with half the required amount of water, add the full amount of BioSafe Weed Control 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 BioSafe Weed Control is completely soluble in water and when uniformly dispersed in water, continuous mixing or agitation is not required.

Hand-Held Equipment

Thorough saturation of the foliage and stems is required for control. Stop sprays when run-off from weed leaves occurs. Use low spray pressure to reduce foaming and avoid contact with desirable plants. Most spray nozzles are designed to operate at 10 to 15 psi and provide uniform spray coverage of weeds.

Directed Spray Equipment

Use a shielded sprayer to prevent spray contact on desirable plants. Avoid spray contact of green plant stems or green bark of young trees and shrubs.

NOTE: In areas of hard water, the final mixture may appear milky. This condition does not change the effectiveness of the treatment. Some visible foam may appear on the leaves as the plants are sprayed. Repeat applications as often as necessary to obtain desired control.

Application Rates:

For general weed and grass control, rates are based on the size of the plants and/or the desired speed of kill. The larger the plants, the higher the application rates needed to ensure maximum her-

bicidal activity. Also, the higher the concentration, the quicker the plants wilt and turn brown. Apply BioSafe Weed Control spray solutions only when weed surfaces are dry.

The rate table presents the suggested percent volume/volume (V/V) solutions of BioSafe Weed Control to use for application as follows:

- Use a 6 to 8% V/V BioSafe Weed Control 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 BioSafe Weed Control spray solution for control of annual weeds over 1 inch height and up to 4 inch height.
- Use a 10 to 13% V/V BioSafe Weed Control spray solution for weeds over 4 inch height and for hard to control weeds.
- A 15% V/V BioSafe Weed Control spray solution is the maximum labeled rate. Use this rate for hard to control perennial weeds or extremely dense weed growth.

RATE TABLE

Final Spray Volume (gallons)	Amount of BioSafe Weed Control for Percent V/V (Volume/Volume) Solution				
	6%	8%	10%	13%	15%
1	8 fl. oz.	10 fl. oz.	13 fl. oz.	1 pt.	1.2 pt.
2	1 pt.	1.3 pt.	1.3 pt.	2 pt.	2.4 pt.
5	2.5 pt.	3.3 pt.	4 pt.	5 pt.	6 pt.
10	5 pt.	6.5 pt.	1 gal.	1.3 gal.	1.5 gal.
20	1.3 gal.	1.6 gal.	2 gal.	2.6 gal.	3.0 gal.

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.

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

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

Use Methods

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

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

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

PESTS

I. Weeds controlled or suppressed by BioSafe Weed Control:

COMMON NAME

Broadleaf Weeds:

Algae
Bittercress, hairy
Chickweed, common

TAXONOMIC NAME

Gloeocapsa magma
Cardamine hirsuta
Stellaria media

Chickweed, mouse-ear
Cocklebur, common
Corn spurry
Cudweed, purple
Groundsel
Lambsquarters, common
Liverwort
Marestail or Horseweed rosettes

Morning glory, annual
Moss
Mustards
Oxalis or Woodsorrel
Pansy, wild
Plantain
Pigweed, smooth & redroot
Mallow, roundleaved
Moneywort
Shepherds purse
Sorrel, sheep
Spurge, spotted
Field pennycress
Velvetleaf

Cerastium vulgatum
Xanthium strumarium
Sparganium angustifolium
Senecio spp.
Chenopodium album
Machantia spp.
Conyza canadensis
Ipomoea spp.
Bryophyta
Brassica spp.
Oxalis stricta
Viola tricolor
Plantago spp.
Amaranthus spp.
Malva spp.
Lysimachia nummularia
Capsella bursa-pastoris
Rumex acetosella
Euphorbia maculata
Thlaspi arvense
Abutilon theophrasti

Grass and Other Weeds:

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

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

II. Weeds Moderately Difficult to Control¹

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

Cynodon dactylon
Convolvulus arvensis
Taraxacum officinale
Cyperus esculentus
Ambrosia artemisiifolia

Use 13 to 15% V/V BioSafe Weed Control for control or suppression

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Container Disposal:

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For non-medical emergencies or spills, see BioSafe Weed Control MSDS or call CHEMTREC at 800-424-9300.

WARRANTY

This material conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. To the fullest extent permitted by law, the seller shall not

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

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

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