

DECIMATE™ Weed & Grass Killer

24.5% Glufosinate-ammonium active

ferti•lome® DECIMATE™ Weed & Grass Killer is a Glyphosate replacement/alternative product

- ferti•lome® DECIMATE™ Weed & Grass Killer is a Group 10 Herbicide that is a non-selective herbicide for grassy and broadleaf weeds, plus some woody plant control products. It will kill all green vegetation contacted by spray
- Primarily a foliar active herbicide that must be absorbed through a green surface of a plant, either leaf, stem or trunk - It's a CONTACT kill and less of a TRANSLOCATING herbicide
- It works by stopping the plants ability to utilize Nitrogen and causes Ammonia with in the plant to become toxic to the plant
- The plant overreacts by producing more Ammonia than it can tolerate and "burns" itself up
- ferti•lome® DECIMATE™ Weed & Grass Killer active Glufosinate inhibits a plant enzyme involved in the early steps of Nitrogen assimilation. It's target site is completely different than Glyphosate's. Because of this, ferti•lome® DECIMATE™ Weed & Grass Killer can control glyphosate-resistant weeds like water hemp, Marehail, Ragweed, Pigweed, Lambsquarters, Kochia and more
- ferti•lome® DECIMATE™ Weed & Grass Killer tends to be more effective on annual broadleaf weeds than grasses
- Works in 24 to 72 hours
- Rainfast in ½ an hour to 4 hours
- ferti•lome® DECIMATE™ Weed & Grass Killer performs better in bright sunshine and when warm air temperatures are 85° or warmer
- Due to its limited translocation, ferti•lome® DECIMATE™ Weed & Grass Killer should be applied when annual weeds are 6 inches tall or less
- Re-seed or replant after ferti•lome® DECIMATE™ Weed & Grass Killer spray has dried
- Glufosinate is a ammonium salt derived from several species of Streptomyces soil bacteria; there are over 500 different species in this family (ferti•lome® Fire Blight Spray Concentrate is one)
- 2 oz. per gallon per 1,000 sq. ft., always read and follow label directions

Spot application:

- Apply 0.85 fluid ounces per gallon of water when weed height or diameter is LESS than 6"
- Apply 1.3 fluid ounces per gallon of water when the weed height or diameter is GREATER than 6"

Greenhouse and Shade House application:

- This product may be used to control weeds in greenhouses or shade houses
- Do not use in greenhouses or shade houses containing edible crops; air circulation fans MUST be turned off during application

Restrictions:

- Do not use in greenhouses or shade houses containing edible crops; air circulation fans MUST be turned off during application
- Do not allow grazing on treated vegetation
- Do not make more than 3 applications per year for broadcast or boom applications, but no more than 2 applications per year on dormant Bermudagrass
- Minimum re-treatment interval is 5 days

Mode of Action Group 10 - Glufosinate products (ferti•lome® DECIMATE™ Weed & Grass Killer) inhibits glutamine synthetase which stops the conversion of two chemicals, glutamate and ammonia, to glutamine. This process allows for an accumulation of ammonia in the plant. Ammonia inhibits photosynthesis and can destroy plant cells.*Use of a Spreader Sticker (Surfactant) is NOT NECESSARY with this product

Herbicide Mode Of Action Comparison



Glyphosate

Glyphosate, a Group 9 Amino Acid Inhibitor, disrupts the plants ability to synthesize critical Amino Acids within the plant. Glyphosate is a systemic (translocated) herbicide that moves from the treated foliage to other parts of the plant parts, including the roots. It has little to no soil residual. The soil grabs the active and makes it inactive and safe to spray beneath shrubs and trees without damage to the desirable plants.



Glufosinate

Glufosinate, a Group 10 Glutamine Synthesis Inhibitor, stops the conversion of two chemicals, Glutamine and Ammonia. The Glutamine synthetase herbicides inhibit activity of Glutamine synthetase, the enzyme that converts Glutamate and Ammonia to Glutamine. This inhibition results in massive accumulation of Ammonia in the plant which destroys cells and inhibits photosynthesis preventing energy production needed to support plant growth and development. It works by stopping the plant's ability to utilize Nitrogen and Phosphorous causing the plant to produce more Ammonia than it can tolerate and burns itself up. Glufosinate is a contact herbicide, which means it doesn't move down to the stems or roots of the plant. As opposed to Glyphosate which is a translocation herbicide, Glufosinate is more of a "Localized Contact Herbicide" with little to no systemic action. It may only move up to 6 inches each direction in a large plant where applied. Again, no root uptake and no pre-emergent weed control.

ferti•lome®



Hi-Yield®

DECIMATE™ Weed & Grass Killer

Coverage Comparison

ferti•lome® DECIMATE™ Weed & Grass Killer per gal. - per 1,000 sq. ft.



- ferti•lome® DECIMATE™ Weed & Grass Killer - Pint Concentrate
- 0.5 oz. Dilution - Makes 32 gallons of mix - Covers 32,000 sq. ft.
 - 1 oz. Dilution - Makes 16 gallons of mix - Covers 16,000 sq. ft.
 - 1.25 oz. Dilution - Makes 12.8 gallons of mix - Covers 12,800 sq. ft.
 - 2 oz. Dilution - Makes 8 gallons of mix - Covers 8,000 sq. ft.



- ferti•lome® DECIMATE™ Weed & Grass Killer - Quart Concentrate
- 0.5 oz. Dilution - Makes 64 gallons of mix - Covers 64,000 sq. ft.
 - 1 oz. Dilution - Makes 32 gallons of mix - Covers 32,000 sq. ft.
 - 1.25 oz. Dilution - Makes 25.6 gallons of mix - Covers 25,600 sq. ft.
 - 2 oz. Dilution - Makes 16 gallons of mix - Covers 16,000 sq. ft.



- ferti•lome® DECIMATE™ Weed & Grass Killer - Gallon Concentrate
- 0.5 oz. Dilution - Makes 256 gallons of mix - Covers 256,000 sq. ft.
 - 1 oz. Dilution - Makes 128 gallons of mix - Covers 128,000 sq. ft.
 - 1.25 oz. Dilution - Makes 102.4 gallons of mix - Covers 102,400 sq. ft.
 - 2 oz. Dilution - Makes 64 gallons of mix - Covers 64,000 sq. ft.



- ferti•lome® DECIMATE™ Weed & Grass Killer - 2.5 Gallon Concentrate
- 0.5 oz. Dilution - Makes 640 gallons of mix - Covers 640,000 sq. ft.
 - 1 oz. Dilution - Makes 320 gallons of mix - Covers 320,000 sq. ft.
 - 1.25 oz. Dilution - Makes 256 gallons of mix - Covers 256,000 sq. ft.
 - 2 oz. Dilution - Makes 160 gallons of mix - Covers 160,000 sq. ft.

Hi-Yield® KILLZALL™ Weed & Grass Killer per gal. - per 300 sq. ft.



- Hi-Yield® KILLZALL™ Weed & Grass Killer - Pint Concentrate
- 1.5 oz. Dilution - Makes 10.6 gallons of mix - Covers 3,200 sq. ft.
 - 2.5 oz. Dilution - Makes 6.4 gallons of mix - Covers 1,920 sq. ft.



- Hi-Yield® KILLZALL™ Weed & Grass Killer - Quart Concentrate
- 1.5 oz. Dilution - Makes 21.3 gallons of mix - Covers 6,400 sq. ft.
 - 2.5 oz. Dilution - Makes 12.8 gallons of mix - Covers 3,840 sq. ft.

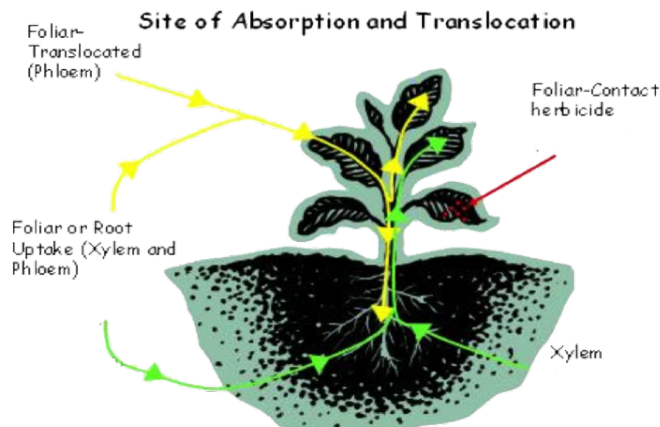


- Hi-Yield® KILLZALL™ Weed & Grass Killer - Gallon Concentrate
- 1.5 oz. Dilution - Makes 85.3 gallons of mix - Covers 25,600 sq. ft.
 - 2.5 oz. Dilution - Makes 51.2 gallons of mix - Covers 15,360 sq. ft.



- Hi-Yield® KILLZALL™ Weed & Grass Killer - 2.5 Gallon Concentrate
- 1.5 oz. Dilution - Makes 213.3 gallons of mix - Covers 64,000 sq. ft.
 - 2.5 oz. Dilution - Makes 128 gallons of mix - Covers 38,400 sq. ft.

*General Weed Application - 3 Tablespoons (1.5 oz.)
*Tough Weed Application - 5 Tablespoons (2.5 oz.)



In return for nutrients (N-P-K), the root system returns simple sugars to the soil bacteria, sending those nutrients up mainly through the Xylem and Phloem as the gateway to provide energy for growth to the cell walls, these nutrients come in contact with the Glufosinate causing the disruption stated above.

