



# ORTHO<sup>®</sup> Pre-Emergence Weed Killer

## FRO WEED KILLER

It will not provide long time residual effect. Burn may be noted on the peanuts, particularly high. **Later Postemergence**—By shielding sprayer, or similar devices to protect the plants, one-half to two-thirds of the damage may be kept off the early growing stage. April, first, use 1 to 2 quarts of ORTHO Pre-emergence in 20 to 30 gals. water per acre. Low cone whistler nozzles will minimize drift coverage of the small weed.

**GRASSES:** Pre-emergence—Use 2 to 3 quarts in 20 to 30 gals. water striking spray at time of planting. Post-emergence—Best results will be obtained with prepared test strips. Since soil reduction does not eliminate weeds, add 1 lb. Dowpon in very light, sandy soils. Early Post-emergence—Use 20 to 40 quarts water per acre as an application to the cotyledon to first seedlings up. This application will control grasses and broadleaf weeds. Follow up, especially, in early season. Do not use if F are set.

**BEANS, FIELD BEANS:** Pre-emergence—Use 1 to 30 gals. water per acre at time of planting. Do not use on very light sandy soils. Emergence—Use 1 to 3 quarts water per acre. Do not apply until after cotyledons have emerged. But not beyond the first trifoliolate leaf. Use 20 to 30 gals. water per acre at time of planting.

**GRASSES:** After first emergence of the broadleaved weeds, use 2 to 4 gals. water per acre as an overall spray. If seedlings are still not controlled, add 1 to 3 quarts of ORTHO Pre-emergence Weed Killer and 3 to 5 quarts water per acre. Note: Do not use under conditions involving possible drift to residual crops.

**CORN, POPCORN:** Pre-emergence—Use 20 to 30 gals. water per acre at time of planting. Post-emergence—Use 1 to 10 gals. water per acre as an overall spray. Do not use on very young plants. Do not apply to ears. Birds may be more prevalent than ever. Water spray, after spraying, to keep the soil moist. If weather interferes with irrigation, use 20 to 30 gals. water per acre at time of planting.

### Active Ingredient

Alkanolamine Salts (of the Ethanol and Isopropanol series) of 4,6-Dinitro-o-sec-Butylphenol  
51%  
Inert Ingredients  
Contains the equivalent of 3 lbs. of 4,6-Dinitro-o-sec-Butylphenol per gallon.

### By Wt.



**ANTIDOTE:** If Swallowed, SEND FOR A PHYSICIAN. Induce vomiting by giving an emetic such as 2 tablespoonsfuls of table salt in a glass of warm water. Repeat until vomit fluid is clear. Then give two tablespoonsfuls of baking soda in a glass of water. Then eat a hard boiled egg. If Splashed in Eyes, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention. If Spilled on Skin, immediately remove contaminated clothing, including shoes, and wash skin with soap and plenty of water. If symptoms of poisoning develop, send for a physician and treat as in FIRST AID, below. Discard contaminated clothing and shoes or wash them thoroughly before reuse. **NOTE TO ATTENDING PHYSICIAN:** Active ingredient is a metabolic stimulant that stimulates heart. **FIRST AID TREATMENT: SYMPTOMS OF POISONING:** Excessive Fastings, Sweating, Thirst and Fever. Symptoms of poisoning develop rapidly, typical exposure. **SEND FOR A PHYSICIAN.** **FIRST AID:** Have patient lie quiet in a cool spot out of direct sunlight. Apply cold compresses to the head and body. Give water to drink.

### DANGER:

KEEP OUT OF REACH OF CHILDREN  
DO NOT TAKE INTERNALLY  
DO NOT INHALE  
DO NOT GET ON SKIN

### DANGER:

MAY BE FATAL IF SWALLOWED. ABSORBED THROUGH SKIN. Do not get in eyes, on skin, or clothing. Do Not Take Internally. Avoid Breathing Spray Drift. DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. Do not Wear Contaminated Clothing or Shoes. To avoid staining of carpets, upholstery, etc., keep contaminated clothing and shoes outdoors until cleaned. Do not store or transport near feed or food. Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption. Toxic to fish and wildlife. Do not contaminate any body of water. Birds and other wildlife in treated areas may be killed.

**PEAS:** Pre-emergence—Use 2 to 3 quarts in 20 to 40 gals. water striking spray at time of planting. Post-emergence—Use 2 to 3 quarts in 20 to 40 gals. water per acre. If weeds are small. Do not apply after flower buds are visible. Do not graze animals on treated fields or feed treated hay to livestock within 40 days after treatment. When seedling grasses are a problem, use the same amount of ORTHO Pre-Emergence Weed Killer and add 1 lb. Dowpon per acre. Note: See recommendations on Dowpon label.

**OATS AND OTHER SMALL GRAINS SEDED ALONE OR INTERPLANTED WITH A LEGUME—Post-emergence:** Use 1½ to 2 quarts in 20 to 40 gals. water per acre when grain is 3 to 6 inches tall and weeds are small. Partial burning of grain leaves is not ordinarily harmful.

**SEEDING ALFALFA, SWEET CLOVER, RED CLOVER, BIRDSFOOT TREFOIL:** Post-emergence—Use 1½ to 2 quarts in 20 to 40 gals. water per acre when legume seedlings have two or more true leaves. Do not graze livestock on treated areas before the first cutting. In alfalfa and trefoil, if seedling grass is a problem, add 2 lbs. Dowpon to the above mixture. Note: Recommendation on Dowpon label.

**PUMPKINS, SQUASH:** Pre-emergence—Apply 1 to 2 gals. per acre after planting but before emergence. Use higher rate on heavy soils. **CUCUMBERS:** Use 1 gal. per acre. Note: Plant seeds at least 1 inch deep. Do not use on very light, sandy soils. Do not use if seeds are to be covered with plastic mulches. Do not use after emergence of cucurbit seedlings.

**ALFALFA:** Apply 1 to 1 quarts in 20 to 40 gals. water per acre as soon as chickweed appears. If new or old green seedlings are present repeat use some treatment on new seedlings and old stands that are not yet clean and have a lot of chickweed. If the seedlings are too well developed, application will be made during dormancy. Use 2 to 4 quarts in 40 to 60 gals. water per acre. Spray when temperature is more than 50° F. Preferably, above 60° F. A second spraying may be required with either a minimum interval of twelve weeks or growth. Do not graze treated areas before first cutting of hay.

**STRAWBERRIES:** In the Northwest, use 4 to 6 quarts in 40 to 60 gals. of water per acre as the plants begin to form a terminal cluster of flowers. Do not spray during blossoming.

**MINT:** Use 1 to 1½ quarts in 20 to 40 gals. water per acre as an overall pre-emergence treatment. Do not spray when the mint is in bloom. Do not spray when the mint is in flower. Do not spray when the mint is in fruit. Do not spray when the mint is in seed. Do not spray when the mint is in flower. Do not spray when the mint is in fruit. Do not spray when the mint is in seed.

**KILLING POTATO VINES:** Pre-emergence—Use 1 to 2 quarts of Ortho Control Herbicide Spray, 1 to 20 gals. of water per acre. Do not spray on potatoes, onions, garlic, leeks, chives, etc. Do not spray on flowers, fruit trees, shrubs, vines, etc.

**GENERAL CONTACT WEED CONTROL:** For control of annual weeds, grasses and broadleaf weeds in lawns, flower beds, parkways, roadsides, etc. Use 1 to 2 quarts in 20 to 40 gals. water per acre. Add 1 to 2 quarts of Dowpon to the above mixture. Then add ORTHO Pre-emergence Weed Killer with Dowpon at the same rate. Spray at moderate pressure. Complete coverage of treated areas. Apply during dormancy, or whether the weeds are in flower.

**DAFFODILS, TULIPS, SIMILAR FALL PLANTED BULBS:** Pre-emergence—Spray in late fall following emergence of winter annual weeds using 1 to 2 gals. in 25 to 40 gals. water per acre. Apply before bulb shoots emerge above ground.

**GLADIOLUS:** Pre-emergence—Use 2½ to 3½ quarts in 25 to 40 gals. water per acre as an overall spray, preferably just before emergence.

**GRAPE VINEYARDS IN IRRIGATED AREAS IN CALIFORNIA:** Use 3 to 3½ gals. in 50 to 100 gals. of water per acre to control annual weeds and grasses under conditions specified below. The addition of 1 to 2 gals. of emulsifiable summer oil per 100 gals. spray will improve kill of large weeds and emerged grasses. For best results, the soil surface should be moist from rainfall or irrigation at the time of treatment. Moderate rain basin or sprinkler irrigation soon after application aids in residual pre-emergence control. On emerged weeds and grasses, best results are obtained when post-treatment irrigation is delayed until topkill is apparent. Furrow irrigation will not move the ORTHO Pre-Emergence Weed Killer into the soil adequately under the vines. Do not disturb treated soil until required by loss of residual weed control. **NOTE:** Do not allow livestock to graze on treated ground cover. **For Bearing Grape Vineyards:** Spray the areas under grapevines using at rate of 3 to 3½ gals. per acre in enough water to obtain good coverage. Apply as a directed spray with the spray striking no more than 6 inches high on the grape stems. Treat a band of soil surface the width desired for weed control, using amounts of spray proportional to the area actually treated. Apply during dormant period and prior to bloom, either before the weeds come up or when they are in the young stage. Uniform soil coverage is essential for uniform results.

ACCEPTED

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RECEIVED  
FEDERAL  
REGISTRATION  
OFFICE  
U.S. DEPARTMENT OF COMMERCE  
19 AUG 1971

### CONDITIONS OF SALE

1. This product is sold subject to the following conditions of sale: (a) The customer shall be responsible for all costs of shipping and handling, including insurance, to the point of delivery. (b) The customer shall be responsible for all taxes, duties, and other charges imposed by any government or authority in connection with the purchase, use, or sale of this product.

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