

## RECOMMENDATIONS

**GENERAL INFORMATION:** GARDEN WEEDER is a 5% granula formulation for use as a preemergence application for control of crabgrass and other annual grasses and certain broadleaved weeds on mineral soils. GARDEN WEEDER is recommended for use on TURF, HOME FLOWER GARDENS, NURSERY STOCK, STRAWBERRIES, VEGETABLE GARDENS.

**DIRECTIONS:** For the control of grasses and some broad-leaved weed species, such as smooth and hairy crabgrass, green foxtail, yellow foxtail, lovegrass, witchgrass, carpetweed, common chickweed, lambsquarters, purslane and Florida pusley, GARDEN WEEDER is recommended at the rate of 160-180 pounds per acre, 4.0 pounds per 1,000 square feet, or 1 quart (approximately 1 quart) for 250 square feet. A slightly higher rate of application (up to 210 pounds per acre of this product) may be required for control of barnyardgrass, annual bluegrass, ground cherry, dodder, browntop panicum, goosegrass, Johnsongrass from seed, redroot pigweed, and nodding spurge.

When used at the recommended rate, up to 1 month weed control can be expected. Bermudagrass, Johnsongrass established from rhizomes, nutgrass, gallinoga, wild mustard, ragweed, and velvetleaf have not been effectively controlled.

Spreader should be checked to determine whether they are applying the correct amount. The application should be made to a uniform weed-free soil surface within two to three days maximum following cultivation to prevent sub-surface germinating weeds from becoming established before the GARDEN WEEDER is activated. Disturbing the soil surface following application will reduce effectiveness. Rates of application can be reduced by banding.

If there is no effective rain within 3 to 4 days after application, sprinkler irrigation should be used for best results.

GARDEN WEEDER can also be applied by shaker method. The ideal way of doing this is to measure off the area to be treated into small plots and then evenly spread the prescribed quantity of granules over the area: 1 pound (approximately 1 quart) treats 250 square feet (area 25 feet by 10 feet); 1 cupful treats 50 square feet. **ANY APPLICATION SHOULD BE MADE PRIOR TO WEED SEED GERMINATION.**

**TURF:** Apply uniformly to established turfgrass at the rate of 200 pounds per acre in early spring before crabgrass and other annual grasses and broadleaved weeds germinate. This usually coincides with the time Forsythia blossoms start to fall. One application, applied before weed germination in early spring usually provides season long control. Where spring seeding is necessary, there should be a delay of approximately 60 days after the application. If reseeding is done before 60 days after application, the amount of grass sown should be increased by 50% to insure thrifty stands.

Early spring application may be applied to newly seeded turf after they exhibited greening of newly-sprouted turfgrass. Early spring application allows fall sowing of permanent grass. To control annual bluegrass and other erratic or late germinating grasses and weeds, a late summer or early fall application of 300 pounds per acre should supplement the early spring application.

The use of GARDEN WEEDER on bentgrass greens should be restricted to portions of greens infested with crabgrass and bentgrasses which are known to be tolerant to GARDEN WEEDER. Application to Cohasset or Toronto Bents is not recommended. At the recommended rate of application, GARDEN WEEDER does not show herbicide injury or discoloration to established common lawn grasses. No more than the recommended rate should be used.

**FLOWER GARDENS:** Apply after establishment, or as supplemental application at the rate of 180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply to the soil following establishment or setting out of flower beds. Where possible, this should be done early in the spring. Delayed or secondary applications can be made at any time provided beds have been cultivated and are free of weeds. Weed control up to four months or more may be expected following proper application.

**NURSERY STOCK OR ORNAMENTAL PLANTINGS:** Apply at lining out, late fall, early spring at the rate of 180 lbs. per acre, (4 lbs. per 1,000 square feet). Applications should be made to soil recently cultivated to a uniform texture. These can be made immediately following lining-out of stock. With established plantings, application should be made following proper cultivation to remove existing weeds. Where possible, this should be done early in the spring. Late summer application may prove beneficial for control of fall-germinating weeds, if made following cultivation. Weed control up to four months or more may be expected following proper application.

**STRAWBERRIES (new plantings):** Apply at planting at the rate of 180 lbs. per acre. (Established plantings): Apply in fall and early spring at the rate of 160-180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil. For new beds, apply 180 pounds at transplanting. Application to established plantings should be made in fall and early spring. Applications of 160-180 pounds per acre may be applied to control late summer ~~and~~ fall germinating weeds. **DO NOT** apply after first bloom. These

applications can be made directly over plants without injury. **BEANSOL, BRUSSELS SPROUTS, CAULIFLOWER AND CABBAGE:** Apply at seeding or transplanting at the rate of 160-180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil. Granules can be applied directly over transplants without injury. If weeds have emerged, crop should be clean cultivated or weeded prior to application.

**BEANS (dry or snap), SOUTHERN PEA (blackeyed):** Apply at seeding at the rate of 160-180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil at time of seeding.

**CUCUMBERS, SQUASH (winter and summer), MELONS (cantaloupe, watermelon, honeydew):** Apply 4-6 weeks after seeding at the rate of 160-180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil 4 to 6 weeks after seeding. Crops should be cultivated or weeded prior to application if weeds have emerged.

**COLLARD, KALE, MUSTARD GREENS, TURNIPS (green- and roots):** Apply at seeding at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply uniformly to the soil at time of seeding.

**CARBS AND ONIONS:** Apply at seeding or transplanting or at layby on onions at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply uniformly to the soil. Granules can be applied directly over transplants without injury; layby applications can be made on onions up to 14 weeks after planting or transplanting. Should weeds emerge prior to layby, onions should be cultivated or weeded prior to application.

**LETTUCE (leaf):** Apply 1-3 weeks after emergence at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply one application only, uniformly to the soil but not later than 3 weeks after emergence.

**LETTUCE (head):** Apply 1-6 weeks after seeding at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply one application only, uniformly to the soil, 1-6 weeks after seeding.

**POTATOES (whole or cut pieces):** Apply at planting, dragoff or layby at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply uniformly to the soil at planting, or if the top of the beds are to be dragged off, GARDEN WEEDER should be applied after dragoff. Layby application can be made up to 9 weeks after planting. If weeds have emerged at layby, the crop should be weeded or cultivated prior to application.

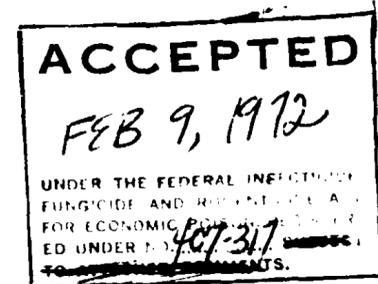
**SWEET POTATOS and YAMS:** Apply at transplanting, or layby at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply uniformly to the soil at transplanting. GARDEN WEEDER can be applied directly over transplants without injury. Layby applications can be made up to 6 weeks after transplanting. If weeds have emerged, the crop should be cultivated or weeded prior to making the application.

**TOMATOES:** Apply 1-6 weeks after transplanting at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Application uniformly to the soil, should be confined to a period of 4 to 6 weeks after transplanting. GARDEN WEEDER can be applied directly over the transplants without injury. If weeds have emerged, the crop should be cultivated or weeded prior to making the application.

**EGGPLANT AND PEPPERS:** Apply at transplanting or layby at the rate of 160-180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply uniformly to the soil at transplanting. GARDEN WEEDER can be applied directly over transplants, without injury. Layby application can be made up to 6 weeks after planting. If weeds are present, the crop should be weeded or cultivated prior to making the layby application.

GARDEN WEEDER is specifically recommended for weed control with the following: Abelia, Arbovitae, Ash, Azalea, Barberry, Boxwood, Birch, Camellia, Chestnut, Cotoneaster, Cottonwood, Crab apple, Cypress, Deutzia, Dogwood, Eleagnus, Elm, Euonymus, Fir, Forsythia, Gum, Hawthorn, Holly, Hydrangea, Jap. andromeda, Juniper, Kantana, Lilac, Locust, Magnolia, Maple, Mockorange, Mountain Laurel, Oak, Pachistima, Pine, Pittosporum, Podocarpus, Poplar, Privet, Redbud, Rhododendron, Rose, Russian olive, Sireea, Spruce, Sycamore, Tree spony, Tulip tree, Variegated privet, Viburnum, Walnut, Weigela, Willow, Yew, Baltic ivy, Boston ivy, English ivy, Honeysuckle, Pachysandra, Wilson ivy, Ageratum, Alyssum, Aster, Baby's breath, Bellflower, Bleeding heart, Blood leaf, Bugloss, Candle larkspur, Candy tufts, Chrysanthemum, Columbine, Coltsfoot, Carnation, Coral bells, Cosmos, Cucumber, Dahlia, Delphinium, Evening primrose, Fernleaf yarrow, Egeria, Forget-me-not, Four o'clock, Foxglove, Gaillardia, Geranium, Gladiolus, Gold dust, Gold, marguerite, Golden tuff, Iris, Lavender, cotton, Lily, Lupine, Marigold, Morning glory, Mother-of-thyme, Mourning bride, Mourning pink, Nasturtium, Opium poppy, Petunia, Pink heath, Pinks, Pinks, Purple coneflower, Rose mallow, Salvia, Scarlet sage, Scandragon, Stonecrop, Strawflower, Sundrums, Sunflower, Sweet pea, Verbena, Vinca, Spiderwort, Violet, Wee-wee, Zinnia.

**DO NOT USE** on the following plants: Bugle weed, Button pink, Carnation, Geum, Germander, Mesembryanthemum, Pansy, Phlox, Sweet William, Telanthera.



# Imperial

## GARDEN WEEDER

CONTAINS DACTHAL®

A SELECTIVE PREEMERGENCE HERBICIDE FOR CONTROL OF ANNUAL GRASSES AND CERTAIN BROADLEAVED WEEDS IN FLOWER AND VEGETABLE GARDENS, TURF AND AGRONOMIC CROPS

ACTIVE INGREDIENT:	Dimethylester of tetrachloroterephthalic acid*	5.0%
INERT INGREDIENTS:		95.0%
	TOTAL	100.0%

\*Use as a preemergence herbicide patented under U. S. Patent No. 2,923,634  
 ®DACTHAL. Registered trademark, Diamond Shamrock Corporation.

### CAUTION

KEEP OUT OF THE REACH OF CHILDREN

Harmful if swallowed. Avoid contact with eyes. Wash after handling or using.

DO NOT store near feed and foodstuffs, seed, fertilizers, or other pesticides in order to prevent contamination. DO NOT apply to newly-seeded turf area until greening appears. DO NOT use on Dichondra turf. See caution on bentgrass greens under Turf Recommendations. Store in dry place. DO NOT graze on treated areas or feed plant refuse to livestock.

DO NOT reuse empty container. Destroy by burning in a safe place. Stay away from smoke or fumes.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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Manufactured by  
**IMPERIAL INC.**  
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