U.S.D.A. REG. NO. _____

A DIAMOND CHEMICAL

NEW IMPROVED VACATE

A Granular Grass and Weed Killer
for Dry and Spray Application.

NONSELECTIVE

677-264

ACTIVE INGREDIENTS:

Sodium Metaborate Tetrahydrate
($Na_2B_2O_4 4H_2O$) 66.5%

(Boron Trioxide (B_2O_3) equivalent .... 22.6%)

Sodium Chlorate ($NaClO_3$) 30.0%

Bromacil (5-bromo-3-sec-butyl-6-methyluracid) 1.5%

INERT INGREDIENTS 2.0%

TOTAL 100.0%

18 pt. type - CAUTION: Keep out of the reach of children. - 12 pt. type
See side panel for additional cautions. - 12 pt. type.

DIAMOND SHAMROCK CORPORATION - CLEVELAND, OHIO 44115

GENERAL INFORMATION

NEW IMPROVED VACATE is designed for total kill of weeds and grasses with a single treatment. Use for quick knockdown of existing vegetation as well as long lasting effects in the soil for control of regrowth or new seedlings. NEW IMPROVED VACATE is especially potent on perennial grasses such as Johnsongrass, Bermudagrass, Dallisgrass and quackgrass. Apply NEW IMPROVED VACATE any time during the growing season. Weeds and grasses are easier to kill with NEW IMPROVED VACATE when they are young and growing rapidly. A uniform application over the entire area to be cleared of vegetation is essential. Use NEW IMPROVED VACATE on noncropped land such as industrial sites, fence lines, storage yards, roadsides and railroads.

METHOD OF APPLICATION

1. Dry Application - NEW IMPROVED VACATE is ready to use. Apply with a shaker can or with a hand operated spreader such as the convenient PCB Spreader designed for this use. Power spreaders can be used for large areas. The dry granules will become effective in the soil after rainfall or artificial watering.

2. Spray Application - Use spraying equipment with mechanical agitation up to 3 pounds of NEW IMPROVED VACATE may be dissolved per gallon of water (see application rates below). Add NEW IMPROVED VACATE gradually to tank during filling with agitator in operation. Dissolve completely before spraying. For quick knockdown of existing vegetation, a thorough wetting of all parts of the plant is recommended.

   For small areas or for spot treatment, NEW IMPROVED VACATE may be dissolved in water and applied with a sprinkling can.

RATES OF APPLICATION - Use the following rates of application under most conditions.

	Applied Dry	Applied Spray
1. ANNUAL grasses and broadleaf weeds such as: sunflower, kochia, Russian thistle, pigweed, crabgrass, downy brome.	1 lb/100 sq.ft.	1 lb/gal/100 sq.ft
2. PERENNIAL grass and broadleaf weeds such as: Johnsongrass, Bermudagrass, Dallisgrass, quackgrass, Canada thistle, field bindweed, bluegrass	3 lbs/100 sq.ft.	3 lbs/gal/100 sq.ft.
3. MIXED annual & perennial weeds and grasses.	3 lbs/100 sq.ft.	3 lbs/gal/100 sq ft

As low as 1/2 lb./100 sq. ft. can be used on annual weeds when young and growing rapidly.
As low as 1 lb./100 sq. ft. can be used on seedlings of perennials when young and growing rapidly.
APPROXIMATELY 2 1/2 CUPS OF NEW IMPROVED VACATE EQUALS 1 POUND.

CAUTION

DO NOT leave contai er where children or animals may take internally.

Harmful if swallowed.

Avoid contact with skin or clothing.

Avoid breathing dust.

May cause irritation of eyes, nose, throat and skin.

DO NOT store with feed or foodstuffs.

DO NOT contaminate water [illegible] tion or drinking purposes.

Wash clothing and e[illegible]

Store in a cool dry p[illegible]

Avoid use on or near t[illegible] trees or other desirable plants.

Special care should be taken to avoid application near the root areas of desirable trees and shrubs.

DO NOT reuse container. Destroy when empty.

WARRANTY AND LIMITATION OF DAMAGES

SELLER warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and BUYER assumes the risk of any use contrary to such directions. SELLER makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of SELLER is authorized to do so except in writing with a specific reference to this warranty. In no event shall SELLER's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

8/13/68

- Spring treatment to control [illegible]: [illegible] ation of [illegible] lb. [illegible] planted in 4-6 weeks time, the crop [illegible] corn and potatoes. Spray when [illegible] growing well. Wait at least [illegible] ploughing down, and wait [illegible] crops that are susceptible [illegible] injury, a longer waiting [illegible] will [illegible] soil is unusually dry.

- Spring treatment of Johnson grass: [illegible] lbs. per acre for the control of established [illegible] on land to be planted to corn, cotton, [illegible]. Alternate rates of 5-[illegible] lbs. [illegible] give control. Spray when the grass is [illegible]-1[illegible] inches high and growing well. The land can be ploughed after [illegible] interval. One or more discings are recommended prior to planting. Cotton can be planted 10-14 days after spraying. With corn, sorghum and soybeans, wait at least 1[illegible] days after ploughing down or deep tilling, before planting treated areas. If the soil is unusually dry, a longer waiting period will be necessary, to avoid crop damage.

[illegible]: To control Bermuda grass: [illegible] lbs. per acre, during or after the cutting season, and a second treatment at 10 lbs. per acre, if needed.

To control quackgrass: Use [illegible] at 10 lbs. per acre, before cutting, and 3-4 weeks later, as required. For a single treatment, apply [illegible] lbs., during or after the cutting season.

During the cutting season, apply immediately after cutting, and later, spray should be directed under the ferns.

Spot treatment: [illegible] lb. in 1 gal. of water.

[illegible]:

For the control of such grasses as [illegible], Bermuda and Johnson, apply [illegible] at 4-10 lbs. per acre (overall coverage), as a pre-emergence spray. If applying by band or drill, use a proportionally smaller quantity of [illegible] per acre. Directed sprays, designed to wet the grass thoroughly and the crop as little as possible, are recommended. For information on use in your area, consult the Agricultural Experiment Station or Extension Service weed specialist.

[illegible] grasses, [illegible] cotton. [illegible] grasses, cotton [illegible] with [illegible] [illegible] planting [illegible].

Cotton — spot treatment for perennial grasses: Apply [illegible] at 1 lb. in 10 gallons of water, spraying to wet all grass foliage. Apply when grasses are growing well and avoid direct contact on cotton, as they are usually [illegible] with spray. [illegible] by tillage.

Cotton — early-layby spray for annual grasses: [illegible] with a directed spray of [illegible] lbs. [illegible] water, that wets the grass, but avoid the cotton. Apply after the last cultivation, [illegible].

[illegible] — directed spray: To control [illegible] annual [illegible] weeds, such as [illegible] witchgrass, [illegible] [illegible] 1/[illegible] lb. [illegible] inch band [illegible] inches, when [illegible] inch [illegible]. [illegible] directing the spray. [illegible]

[illegible] will be stunted [illegible] condition, but quick [illegible] green for seed.

[illegible] the control of yellow, green and giant foxtail, and [illegible], apply [illegible] per acre in 5-10 gallons water. Apply when flora is 1-6 inches high, and do not exceed [illegible] given [illegible]. To control [illegible] weeds, apply [illegible] with [illegible] 4-1.

[illegible]: In orchards less than 4 years old, apply [illegible] at 5 lbs. per treated acre, and at 10 lbs. per treated acre for those over 4 years old. If using as a directed spray, apply at 4-8 foot bands on each side of the tree row. Use spot treatment, where grass is a problem. With band and spot treatment, the amount of spray should be reduced according to the area treated. Do not apply within 30 days of harvest. Use no more than twice in any one growing season. Keep spray off crop foliage and fruit.

[illegible]: (Searing) (California and Arizona) [illegible] lbs. [illegible] on a broadcast basis per treated acre. [illegible] directed spray, apply as a band 30 inches wide centered on vine row. Do not spray vines foliage or fruit. Do not apply within 30 days of harvest, or more than twice per season.

[illegible]: For the control of seedling grasses, apply [illegible] 1 lb. per acre. Apply when grasses are small and [illegible] are 3-6" tall. Apply at least 25 days before harvest. Do not feed treated pea vine hay to livestock.

[illegible]: Apply [illegible] at 5 lbs. per acre pre-emergence of potatoes, when grasses are small. For crabgrass, use 10 lbs. per acre. Apply after planting, but before emergence of potatoes. Use 8 lbs. [illegible] per acre for the pre-planting control of crabgrass. Though after 4 days the plant the potatoes immediately, if normal soil moisture present. [illegible] to season grass control, apply [illegible] at 5 lbs. per acre in 15-25 gallons of water. Apply after lay-by, when grasses have germinated, but before the seedlings are 3 inches tall. Use vine lifter, to facilitate [illegible] to the base of the potato plant, without damaging the potatoes.

[illegible] not use [illegible] after [illegible] to emergence. Do not use [illegible] hiller or lifter [illegible] potatoes.

[illegible] can be used [illegible] seedling [illegible] stage. For small plant seedling, apply at 3-4 lbs. [illegible] per acre, 6-8 lbs. for wild [illegible] as a direct spray. These higher rates may cause stunting of beet and reduce yields. From the leaf, until the beet are 14 inches tall, apply at 3-4 lbs. per acre, [illegible] directed spray. Such amounts may cause stunting of beets and reduce yield, to control late emerging grasses. Use leaf lifting [illegible] to remove leaves from spray pattern. This will reduce damage to the beets to a minimum.

[illegible]: Post treatment: 1-6 months pre-harvest, apply at rate of 10 lbs. [illegible] in 100/150 gallons water per acre. Keep spray off pineapple foliage.

Cameraman's Note
[illegible]