



**Stuffer**

**IMPORTANT**

**SEE ATTACHED BOOKLET FOR**

**USE PRECAUTIONS**

**DIRECTIONS FOR USE**

**AND**

**RECOMMENDATIONS**

**Read All Precautions And Directions Before Using**

**RINSE SPRAY EQUIPMENT AND EMPTY CONTAINER  
DO NOT RE USE CONTAINER! PERFORATE, CRUSH AND BURY WITH  
LIQUID WASTE IN ISOLATED AREA AWAY FROM WATER SUPPLIES**

NOTICE: Stuffer Chemical Company makes no warranty, express or implied, including the warranties of merchantability and fitness for any particular purpose, concerning this material, except those which are contained on Stuffer's label.

# Vernam<sup>®</sup>

7-E

**SELECTIVE HERBICIDE**

**Complete Directions For Use,  
Use Precautions and Recommendations**

EPA REG. NO. 4-C-115-AA

**STAUFFER CHEMICAL COMPANY**

WESTPORT, CT 06880

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or soil insecticides may create abnormal conditions that weaken crop seedlings. VERNAM used under these abnormal conditions could result in crop injury.

VERNAM is recommended for use on mineral soils only.

Do not tank mix VERNAM with insecticides or fungicides.

Do not store near seeds or fertilizer.

Do not contaminate irrigation water or water used for domestic purposes.

Keep container closed when not in use.

Do not contaminate water by cleaning of equipment or disposal of wastes.

## DIRECTIONS FOR USE OF VERNAM\*

VERNAM is a selective herbicide which is mixed (incorporated) into the soil or applied below the surface of the soil for control of weeds listed on this label. VERNAM controls annual weeds as their seeds germinate by interfering with normal germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

### APPLICATION DIRECTIONS

Pour the recommended amount of VERNAM 7-E into the spray tank during

the filling operations. Apply in 10 to 50 gallons of water per acre using a properly calibrated, low-pressure (20 to 40 psi) sprayer having good agitation. The soil should be well-worked and dry enough to permit good soil mixing (incorporation) or subsurface application. Soils should be as free as possible of trash for subsurface application with sweeps or injectors. Avoid overlaps that will increase dosage above recommended limits.

VERNAM may be combined with fluid (solution, slurry, or suspension) fertilizers. However, physical compatibility with these fluid fertilizers must be determined before combining in the spray tank. See special literature giving directions for these combinations.

### INCORPORATION DIRECTIONS

VERNAM 7-E must be incorporated into the soil immediately (within minutes) to prevent loss of the herbicide. Whenever possible, application and incorporation should be done in the same operation.

#### SOIL MIXING (INCORPORATION) BEFORE PLANTING:

Use power-driven cultivation equipment set to cut to a depth of 2 to 3 inches or tandem discs set to cut to a depth of 4 to 6 inches, operated at 4 to 6 MPH, followed by a spike-toothed harrow or some other leveling device which extends beyond ends of the disc. For thorough mix-

ing, disc in two different directions (cross disc). Prior to the second discing, raise the disc to prevent cutting deeper than 4 to 6 inches.

**NOTE:** In the southern lower delta of the Mississippi Valley, disc incorporation is not recommended on the heavy (gumbo) clay soils.

#### **SOIL MIXING (INCORPORATION)**

##### **AFTER PLANTING:**

Use power-driven cultivation equipment set to cut to a depth of 2 inches, or on light soils only, ground-driven tillers (rolling cultivators, rotary hoe, row wheels, etc.) set to cut to depth of 1½ inches and operated at 6 to 8 MPH. When incorporating after planting, care must be taken not to disturb the crop seed or seedlings. Adjust tines or blades of incorporation equipment so they are not directly over the drill row.

**SUBSURFACE APPLICATION BEFORE OR AT PLANTING** (For Peanuts and Soybeans Only): Special equipment designed for subsurface application **MUST** be used. Injector units must be rigidly mounted on or **IMMEDIATELY** ahead or **IMMEDIATELY** behind the planter unit. Sweeps must be mounted **IMMEDIATELY** ahead of the planter unit.

- (1) **SOIL INJECTION**—Injector shanks must be spaced 2½ to 3 inches apart and mounted in staggered positions to avoid trash buildup. Set shanks to inject VERNAM 1½

to 3 inches below the soil surface. The width of the band in which weed control is desired will determine the number and spacing of injector shanks required per row. (Example: Four injector shanks spaced 3 inches apart gives a 12-inch band.) A broadcast application can be made by increasing the number of shanks. The two shanks adjacent to the drill row must be 1¼ to 1½ inches on either side of it.

- (2) **COVERED SWEEPS**—Set the sweeps to run 3 to 4 inches below the soil surface. Calibrate by measuring the spray band width at the back edge of the sweep, not the sweep width. For **BROADCAST APPLICATIONS**, stagger sweeps on double tool bar so that they overlap sufficiently to allow spray bands to meet.

**NOTE:** When applying the sweeps, VERNAM must be applied deep enough to allow 3 to 4 inches of soil to remain over the treatment after the planting operation.

#### **PLANTING—SOYBEANS, PEANUTS**

Do not plant seed deeper than 2 inches. For VERNAM 7-E applications made before planting, seeding can be done immediately, or it may be delayed up to 10 days. If it is necessary to work the soil following application and incorporation, but before planting, do not work the soil deeper than the depth the herbicide

control in the row) do not move or shape soil after treatment, such as by planting in deep furrows.

## **RECOMMENDATIONS— VERNAM® 7-E**

These recommendations are given in terms of broadcast (over-all) rates of VERNAM 7-E per acre. For band or row application, reduce broadcast rates proportionately, depending upon band width to be treated and row spacing.

### **PEANUTS**

VERNAM may be applied before planting, at planting or immediately after planting. When applying after planting, care must be taken not to disturb the seed. **BROADCAST RATES PER ACRE—**2½ pints on sandy (light) soils; 3 pints on sandy loam to clay loam (medium to heavy) soils.

### **SOYBEANS**

~~The following recommendations are for Soybeans grown in all areas except in the Southeastern states:~~

VERNAM may be applied before planting, at planting, or immediately after planting. When applying at or after planting, care must be taken not to disturb the crop seed or seedlings. **BROADCAST RATES**

**PER ACRE—**2½ pints on sandy (light) soils, 3 pints on sandy loam to clay loam (medium to heavy) soils, and 3½ pints on clay (very heavy) soils.

**For Soybeans grown in the Southeastern states including North Carolina, South Carolina, Georgia, Alabama, Florida and Eastern Tennessee (Tenn. River East):**

VERNAM may be applied before planting, at planting, or immediately after planting. For incorporated applications made before planting, do not plant in deep furrows, or use shanks or other devices ahead of planter which bring up untreated soil to the surface. For furrow planted soybeans, apply VERNAM at or immediately after planting in bands over the row and incorporate with row wheels only. When applying at or after planting, care must be taken not to disturb the crop seed or seedlings. **BROADCAST RATES PER ACRE—**2½ pints on sandy (light) soils; 3 pints on sandy loam to clay loam (medium to heavy) soils.

**NOTE:** In areas where beds are made prior to planting soybeans, VERNAM may be applied in a band immediately ahead of the bedding disc, set to cover the VERNAM with 3 to 4 inches of soil. If bed levelers are used before planting soybeans, make the beds higher to compensate for leveling, so 2 to 3 inches of soil remains over the treatment after the planting operation is done.

### **SWEET POTATOES**

(VERNAM is not recommended on sweet potatoes in the states of New Jersey and California.)

- A. FOR A BROADCAST BED-IJP APPLICATION,** apply 1¾ pints of VERNAM 7-E per acre immediately ahead of bedding discs set to cover VERNAM with 3 to 4 inches of soil.
- B. FOR A BAND BED-OVER APPLICATION,** reduce the broadcast rate (broadcast rate for this method is 3½ pints per acre) proportionately depending upon band width and row spacing. Apply VERNAM immediately ahead of bedding discs set to cover VERNAM with 3 to 4 inches of soil. Set discs so that treated soil is not folded in.
- C. FOR A BROADCAST INCORPORATION APPLICATION,** apply VERNAM 7-E at 2½ pints per acre and disc incorporate just before making beds (if beds are made) and transplanting.

**NOTE:** With Methods A and B, if bed levelers are used when transplanting, make the beds higher to compensate for leveling, so 3 to 4 inches of soil covers VERNAM after transplanting.

#### **TOBACCO**

**For varieties grown in Virginia, Maryland, and Kentucky only:**

Apply and incorporate VERNAM 7-E 7 days after transplanting or setting plants. When incorporating, cultivation unit should be adjusted so that VERNAM-treated soil is thrown toward transplants in the row. **BROADCAST RATE PER ACRE—3½ pints.**

#### **CULTURAL PRACTICES FOLLOWING APPLICATION**

VERNAM is not persistent in the soil, and susceptible weeds germinating later during the growing season may not be controlled. Shallow cultivation may be necessary to control these late-germinating weeds. Do not cultivate deeper than the depth of the herbicide incorporation. Recommended pre-emergence or post-emergence herbicides may be applied over the top of pre-plant incorporated applications of VERNAM when necessary to control weeds resistant to VERNAM.

#### **VERNAM® 7-E/TREFLAN® E.C. TANK MIX DIRECTIONS**

##### **HOW TO USE VERNAM® 7-E AND TREFLAN AS A SPRAY TANK MIX FOR WEED CONTROL ON SOYBEANS**

A tank mix combination of VERNAM 7-E (7 pounds active ingredient per gallon) and TREFLAN E.C. (4 pounds of active ingredient per gallon) can be used prior to planting for weed control in soybeans.

The combination will control a broader spectrum of weeds than either material used alone. This includes tough weeds such as Nutgrass, Velvetleaf, Giant Foxtail and other Foxtails, Johnsongrass Seedlings, Redroot Pigweed and Wild Cane.

\*Reg. TM of Elanco Products Company.

**Dependable performance**—Because the herbicides are mixed into the soil, rainfall is not needed to move them into the weed germinating zone. They are already there to kill grass and broadleaf weeds when they sprout.

**WEEDS CONTROLLED**

- |                                    |                            |
|------------------------------------|----------------------------|
| <b>ANNUAL GRASSES:</b>             | <b>ANNUAL BROADLEAVES:</b> |
| Crabgrasses                        | Pigweeds (Spiny, Redroot)  |
| Barnyardgrass (Watergrass)         | Carelessweed               |
| Foxtails (Including Giant Foxtail) | Velvetleaf (Buttonweed)    |
| Johnsongrass (From Seeds)          | Lambsquarters              |
| Goosegrass                         | Carpetweed                 |
| Texas Panicum                      | Russian Thistle            |
| Stinkgrass                         | Kochia                     |
| Bromegrass                         | Purslane                   |
| Brachiaria                         | Florida Pusley             |
| Sandbur                            | Knotweed                   |
| Junglerico                         | Stinging Nettle            |
| Annual Bluegrass                   | Goosefoot                  |
| Sprangletop                        | Chickweed                  |
| Cheat                              |                            |
| Wild Cane                          |                            |

**PERENNIAL GRASSES:**  
Nutgrass (Nutsedge)

**APPLICATION DIRECTIONS**

Read and follow all directions, use limitations, precautions and warnings that appear on the VERNAM 7-E and TREFLAN E.C. labels. Do not contaminate water by cleaning of equipment or disposal of wastes.

**APPLICATION RATES (BROADCAST):**

SOIL TEXTURE	VERNAM 7-E	TREFLAN E.C.
Light (Sandy Soils)	1 3/4 pints	1 pint
Medium (Silt Loam & Sandy Clay Soils)	2 1/2 pints	1 pint
Heavy (Clay Soils)	3 pints*	1 pint

\*For Nutgrass, Wild Cane and Velvetleaf control, use the high rate of 3 pints VERNAM on medium and heavy (clay) soils. Cultivation is suggested in addition to VERNAM/TREFLAN treatment in fields with moderate to heavy infestations of Nutgrass, Wild Cane and Velvetleaf.

**MIXING:**

Add the recommended rates of both VERNAM and TREFLAN to the spray tank during filling and mix thoroughly. Apply in 10-50 gallons of water per acre.

**SPRAY EQUIPMENT:**

Use a properly calibrated, low-pressure, boom-type sprayer having good agitation. Check frequently during application to be sure nozzles are free from clogging and delivering a uniform spray pattern.

**SOIL INCORPORATION:**

VERNAM and TREFLAN must be mixed (incorporated) into the soil immediately after application. Whenever possible, application and incorporation should be done in the same operation. This can be done by mounting the tanks and boom right on the incorporation rig.

For thorough incorporation, use the following equipment:



**TANDEM DISC**—Set to cut to a depth of 4 inches, followed by a spiked roller, harrow, or some other leveling device which extends beyond the ends of the disc. For thorough mixing, disc in two different directions (cross disc).

**OR:** Power-driven cultivation equipment set to cut to a depth of 2-3 inches.

**PLANTING:**

Do not plant seed deeper than 2 inches. Seeding can be done immediately, or it may be delayed up to 10 days. If it is necessary to work the soil following application and incorporation, but before planting, it should be shallow, i.e., no more than 1/2 the depth the herbicides were incorporated. To avoid removing the herbicide from the row (with loss of weed control in the row) do not move or shape soil after treatment, such as by planting in deep furrows.

**CONTAINER DISPOSAL:**

**RINSE SPRAY EQUIPMENT AND EMPTY CONTAINER. DO NOT RE-USE CONTAINER: PERFORATE, CRUSH AND BURY WITH LIQUID WASTE IN ISOLATED AREA AWAY FROM WATER SUPPLIES.**

These products are also available from your Stauffer Dealer:

**Aspon<sup>®</sup>**  
Insecticide

**Betasan<sup>®</sup>**  
Herbicide

**Captan**  
Fungicide

**Devrinol<sup>®</sup>**  
Herbicide

**Dyfonate<sup>®</sup>**  
Insecticide

**Eptam<sup>®</sup>**  
Herbicide

**Eradicane<sup>®</sup>**  
Herbicide

**Folpet**  
Fungicide

**Imidan<sup>®</sup>**  
Insecticide

**Knoxweed<sup>®</sup>**  
Herbicide

**Ordram<sup>®</sup>**  
Herbicide

**Parathion**  
Insecticide

**Methyl Parathion**  
Insecticide

**Prefar<sup>®</sup>**  
Herbicide

**Ro-Neet<sup>®</sup>**  
Herbicide

**Sutan<sup>®</sup>**  
Herbicide

**Sutan<sup>®</sup>/atrazine**  
Herbicide

**Tillam<sup>®</sup>**  
Herbicide

**Trithion<sup>®</sup>**  
Insecticide-Acaricide

**Vapam<sup>®</sup>**  
Soil Fumigant