

# Tolban™ 4E

## DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product.

### Conditions of Sale and Warranty

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use. Applications of which are beyond the control of CIBA-GEIGY or the Seller. All other risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the minimum description on the label and does not contain any poisonous or deleterious substances referred to in the **Directions for Use** of this product. **CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.**

CIBA-GEIGY and the Seller assume no liability for the Buyer's use or application of this product. **Conditions of Sale and Warranty**, which may be obtained from the Seller, shall be read and understood by the Buyer before use of this product.

### General Information

Tolban 4E is a selective herbicide which when mixed into the soil before planting will provide residual control of certain annual grasses and broadleaf weeds (see list). It controls weeds as they germinate. It does not control established weeds.

Incorporation of Tolban 4E into the top 2-3 inches of soil in the final seedbed is necessary to assure effective weed control regardless of weather conditions. Later rotary-hoeing, shallow cultivation, shallow ditching for irrigation, or hand-hoeing can be carried out as needed without reducing weed control.

### Application

Thoroughly mix crop residues into soil to a depth of 4-6 inches by deep plowing or disking prior to application.

Apply with a properly calibrated low-pressure sprayer. Add Tolban 4E to clean water while filling the spray tank. Uniformly apply the recommended rate in 10-40 gals. of water per acre.

Apply to the soil surface and incorporate in the same operation, if possible, to assure maximum herbicidal activity. If not incorporated during application, Tolban 4E should be applied to a dry, loose soil surface and incorporated within 4 hours.

Delayed incorporation may result in poor weed control, especially if Tolban 4E is applied to a wet, warm surface or when the wind speed is more than 10 mph. Also shallow incorporation less than 2 inches deep may result in variable weed control.

Incorporate Tolban 4E with any of the following:

1. Disc harrow set to cut 4-6 inches deep and operated in two different directions at 5-8 mph.

2. Rolling cultivator set to cut 2-4 inches deep and operated twice at 6-8 mph. Use only on coarse and medium-textured soils.

3. Mulf treader and other similar disk-type implement set to cut 3-4 inches deep and operated in two different directions at 5-8 mph.

4. PTO-driven equipment (tiller, cultivator or hoe) set to cut 2-3 inches deep and operated one time at less than 4 mph.

5. Bed conditioner set to cut 2-4 inches deep and operated one time at 4-6 mph. Use only on coarse and medium-textured soils.

As an alternative to the above surface application followed by incorporation Tolban may be applied beneath the soil surface with a spray blade, such as a Stoneville blade or other layering techniques, set at about 1-2 inches deep.

### Weeds Controlled

<i>Annual Grasses</i>	<i>Annual Broadleaves</i>
Barnyardgrass	Florida pusley*
Crabgrass	Lambsquarters
Foxtails (giant, green, yellow)	Pigweed
Goosegrass	
Johnsongrass seedlings	*At minimum rate of 1 1/2 pts. / A
Texas panicum	

### Directions for Use

*Allalfa (seedling), cotton, dry beans, kidney lima, navy pinto, garbanzo peas, chickpeas, guar, mung beans, okra, safflower, snap beans (green, wax, string), southern peas (cowpeas, blackeye peas), soybeans, and sunflowers.*

Apply before planting at the rate recommended in the following table in 10-40 gals. of water per acre, and incorporate

with 4E. Where a range of rates given, use the high rate if the soil is treated with high organic matter, greater than 2% of the weeds present, and difficult to control, or a heavy weed population is expected.

**Note:** Do not use for weed control in alfalfa in Illinois, Indiana, Iowa, Michigan, Minnesota, Montana, North Dakota, or South Dakota.

Soil texture	Broadcast rate per acre
COARSE sand, loamy sand, sandy loam	1-1 1/2 pts.
MEDIUM loam, silt loam, silt	1 1/2-2 pts.
FINE sandy clay loam, silty clay loam, clay loam, silty clay, clay, muck or peat	2 pts.
	Do not use

For band treatment the amount of Tolban 4E required may be calculated by the formula:

band width in inches	broadcast rate per acre	amount needed
row width in inches		

**Precaution:** Do not use Tolban 4E for weed control in alfalfa if a nurse crop such as oats is to be planted or if an alfalfa-grass mixture is to be seeded.

**Note:** Do not graze or feed treated cotton, safflower, or sunflower forage to livestock.

### Rotational Crops

Land treated with Tolban 4E may be rotated to other crops in the fall or in the following spring.

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### Danger:

Keep out of reach of children.

May cause severe eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles and rubber gloves when mixing. In case of eye contact, flush with plenty of water and call a physician. In case of skin contact, wash with soap and water. Harmful if swallowed. If swallowed, drink large quantities of water. Avoid alcohol. Call a physician immediately.

Do not enter sprayed area until dry. Do not contaminate food or feed. Do not reuse container. Return empty container to drum conditioner or destroy by perforating or crushing and burying in a safe place. Do not use, pour, spill or store near heat or open flame.

### Fish Caution

This product is toxic to fish. Keep out of lakes, streams, ponds, and public waters. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

**Note:** Store at temperatures above 32° F.

Tolban™ trademark of CIBA-GEIGY for profluralin.

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