

4L

For weed control in certain crops, on industrial sites, and around-the-farm

Inert	
Ingredients:	58.1%
Total:	100.0%

**Princep 4L contains
4 lbs. active ingredient
per gal.**

Use entire contents at one time.

**2½
Gallons**
U.S. Standard Measure

Keep Out of Reach of Children.

See additional precautionary
statements at end of label
booklet.

Princep[®] trademark of
CIBA-GEIGY for simazine

EPA Reg. No. 100-526

**See directions for use
inside booklet**

**Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27409
CGA 6L32B**

CIBA-GEIGY

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 or application, all of which are beyond the control of CIBA-GEIGY or the Seller. A such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that its product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. **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 offer this product and the Buyer and user accept it subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

Directions for Use

[illegible]

General Information

April 1991, 1996, and 1997. We determined whether the effect of weeding with or without a herbicide on yield of a quality indicator (protein) differed when weeding was done before or after flowering. Weeding was done in the field, before or after flowering, and the herbicide was applied before or after flowering.

It is not clear whether the results of the present study are generalizable to other populations. The sample was composed of young adults, and the results may not apply to older adults. The sample was also composed of students, and the results may not apply to non-student populations. The sample was also composed of individuals who were not currently using a mobile phone, and the results may not apply to individuals who are currently using a mobile phone. The sample was also composed of individuals who were not currently using a mobile phone, and the results may not apply to individuals who are currently using a mobile phone.

the first 1000 test wells being 100% through the water surface and the other 1000 being 100% below the water surface. The results were very close to the conditions for wind over calm seas, necessitating only a reduction of 10% in λ .

[illegible]

**FAILURE TO FOLLOW PRECAUTIONS ON THIS LABEL
MAY RESULT IN CROP INJURY, POOR PERFORMANCE,
AND/OR ILLEGAL RESIDUES**

Annual Weeds Controlled

[illegible]

snake (in an ass.
 common amaranths
 in this shade
 pepperweed
 pigweed
 pineapple weed
 prickly lettuce
 common purslane
 chickgrass*
 ratweed
 taro (escall)
 romaine

100

ACCEPTED

Russak's list
of the grasses
in the glass
(Bracharia spp.)
silver hairgrass
interwoven
spanned the
spread well
the Federal Insecticide
and Fungicide Act
was amended, and the pesticide
was registered under
the FIFRA Act. No. 100-521

*See Appendix 1, notes 1-3.

Ground Application

Apply Principle 46 in a minimum of 20 gases or spray mixture per
line or less otherwise stated. Use fan-type nozzles. Screens in
nozzles and in suction and in line strainers should be no finer
than 50 mesh. Use a pump with capacity sufficient to maintain
40-60 psi operating pressure.

Aerial Application

Use aerial application only where specified in the use directions. Apply a minimum of one gallon of water for each quart of Principle 4E applied per acre. Do not apply where uniform coverage cannot be obtained or where excessive spray drift may occur. Avoid application directly to animals or humans. Fishermen or baiters should avoid inhalation of spray mist or contact with skin and should wash thoroughly before eating and at the end of each day's operation.

Mixing Instructions

Be sure sprayer is clean and not contaminated with 2,4-D or other materials as drop injury or sprayer clogging may result. Mix Princep 4L with water or 1:1 fertilizer and apply as a spray. Flush Princep 4L into the tank during or after tank mixing. Do not use mechanical agitation; it is recommended during mixing and application to keep the material in suspension. Air return lines to the tank must discharge below liquid level and return should not be so oriented as to cause air bubbles to form in the liquid. Wash sprayer thoroughly after use.

Band Treatment

Use the following formula to calculate the amount of Ferti-cep 4L needed per acre for band treatment:

bandwidth inches	bandwidth	an authorized
bandwidth inches	bandwidth	purchase the

Rotational Crops and Perennial Crop Replanting

[illegible]

Field Crops

Corn

Principle 4L is a preplant or preemergence herbicide. It is applied as a carrier solution or as a dry mix. It is applied to the soil surface and is absorbed by the roots of the weeds. It is applied to the soil surface and is absorbed by the roots of the weeds. It is applied to the soil surface and is absorbed by the roots of the weeds.

Preplant: Broadcast in the spring after the soil has been prepared. Apply at the rate of 4 to 8 pints per acre. It is applied to the soil surface and is absorbed by the roots of the weeds. It is applied to the soil surface and is absorbed by the roots of the weeds.

Preemergence: Apply before weeds and corn emerge. Use the appropriate rate in the following table.

Note: Under dry weather conditions, preplant application may give better weed control than preemergence.

Soil	Preemergence rate per acre
Sand, silt and loam that is low in organic matter	4 pts.
Soil containing moderate amounts of clay and organic matter	4-6 pts.
Loam that is rich in organic matter and clay, or dark prairie soils of the Belt	6 pts.
Peat, muck, or other heavy soils	8 pts.

*For calculation of rates, see the label for General Information section.

Quackgrass Control: Broadcast 8 pints per acre in the fall. Plow 2-3 weeks later, or if less than 4 inches of snow, plow until spring. Do not plant any crop except corn in the spring following treatment. Do not graze treated area.

Precautions: 1) Do not apply more than 8 pints of Principle 4L per acre per year. 2) Do not plant any crop except corn until the following year as injury may occur. 3) Following harvest, plow and thoroughly till the soil in fall or spring to minimize possible injury to spring-seeded rotational crops, regardless of the rate used. 4) If Principle 4L is used at a rate higher than 6 pints per acre or equivalent band rate, a crop of untreated corn should precede the next rotational crop. 5) Do not apply Principle 4L preplant incorporated for weed control in corn in the High Plains and Intermountain areas of the West (including central and western Kansas, western Nebraska, western Oklahoma, and the Panhandle of Texas) where rainfall is sparse and erratic or where irrigation is required. 6) In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use Principle 4L only when corn is to follow corn or when a crop of untreated corn is to precede other rotational crops. 7) In western Minnesota and eastern parts of the Dakotas, Nebraska and Kansas, do not rotate to soybeans if the rate applied was more than 4 pints per acre or equivalent band rate as injury may occur. 8) Injury may occur to soybeans planted in north-central and northwest Iowa, south-central and southwest Minnesota, northeast Nebraska, southeast South Dakota, and other areas the year following application on soils having a calcareous surface layer. 9) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following Principle 4L application as injury may occur.

Tank Mixtures on Corn

AAAtrex®: Use Principle 4L in a preplant or preemergence tank mixture with AAAtrex N-ne-O, AAAtrex 80W, or AAAtrex 4L (4LC) for control of many annual weeds including carpetweed, crabgrass, fall panicum, foxtail, lambsquarters, morningglory, pigweed, rayweed, and velvetleaf. Refer to the AAAtrex label for complete directions. Also refer to the AAAtrex label and the label section of this label for precautions and limitations.

Fruit Crops

Apply the spray to the orchard or vineyard foliage and contact with fruit. In age or stems. Apply only to orchards or groves where trees have been established the year or more

before. Do not apply to trees or vines that are less than 1 year old. Do not apply to trees or vines that are less than 1 year old. Do not apply to trees or vines that are less than 1 year old.

Apples

Apply 4 to 8 pints per acre.

Grapes

Apply 4 to 8 pints per acre. Do not apply to vines that are less than 1 year old.

Apply 4 to 8 pints per acre. Do not apply to vines that are less than 1 year old.

Grapefruit, Lemons, Oranges

Apply 4 to 8 pints per acre. Do not apply to trees that are less than 1 year old.

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Texas (Grapefruit and Oranges only): Apply 4 to 8 pints per acre.

Precautions (all areas): 1) Do not use in nurseries. 2) Do not apply to bedded grapefruit, lemons, or oranges. 3) To avoid possible injury, do not apply to trees under stress from freeze damage for one year after the freeze.

Principle 4L Plus Evik 80W for Grapefruit and Oranges

Use in grapefruit and oranges in Florida and Texas for control of weeds listed in the following directions and under General Information. Apply the rates given below in a minimum of 40 gals. of water per acre thoroughly covering existing vegetation, but avoiding contact with the fruit for age or stems. Do not spray when wind. Apply when weeds have resumed active growth in the spring, but before they exceed 4 inches in height (except as noted for Texas). Apply only once per year. To avoid possible injury, do not use in nurseries, or around trees that have been established in the grove less than two years, or where trees are under stress from freeze damage for one year after the freeze. Do not apply within 200 days before harvest. Do not graze treated areas. Observe all precautions and limitations on the labeling of Principle 4L and Evik 80W. When mixing add Evik 80W slurry to water in spray tank, agitate thoroughly, then add Principle 4L and agitate thoroughly again.

Florida (Ridge Area): Apply 4 qts. of Principle 4L plus 5 lbs. of Evik 80W per acre. Controls milkweed vine when applied either preemergence or on vines up to 24 inches tall.

Florida (Bedded Areas): Apply 3.2 qts. of Principle 4L plus 5 lbs. of Evik 80W per acre. Controls milkweed vine when applied either preemergence or on vines up to 12 inches tall.

Texas: Apply 3.2-4 qts. of Principle 4L plus 2.3 lbs. of Evik 80W per acre plus 2 qts. nonionic surfactant such as X-77® per 100 gals. of spray mixture (add surfactant to spray tank last). Controls buffelgrass, marneyvine, ray, treefern, Texas panicum, sandbur, and sunflower, and gives top kill of johnsongrass. Use 4 qts. of Principle 4L per acre for control of heavy weed growth and for top kill of johnsongrass. Use the higher rate of both products for control of marneyvine.

Nonselective Weed Control on Noncrop Land

Principle 4L provides long-term weed control on industrial sites, highway shoulders, and road rights-of-way, lumberyards, petroleum tank farms, and noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences, roadsides, and lanes. Do not use this product for nonselective weed control on land to be cropped, near adjacent desirable trees, shrubs, or plants, or in greenhouses, as injury may occur. Aerial applications may be made where it is feasible.

Best results are obtained when Principle 4L is applied before weeds emerge. If weed growth has begun, and removal is not feasible, include a contact or translocated herbicide in the spray. Use at least 1 gal. of water for each quart of Principle 4L. Use more water if practical for both ground and aerial applications.

Annual broadleaf and grass weeds: including barnyardgrass, crabgrass, lambsquarters, foxtail, ragweed, purslane, and turkey mullein. Apply 4.8 to 6 qts. per acre.