

92.03.10

PRINCEP(R) 80W

COMMERCIAL

HERBICIDE

Formulation of Simazine

Wettable powder for: Weed control in certain fruit crops, asparagus, ornamentals, shelter belts, Christmas tree and woodland plantations, birdsfoot trefoil and corn.

NET WEIGHT: 2.5 kg

GUARANTEE:

Simazine.....	77.6%
Related actives.....	2.4%

READ THE LABEL BEFORE USING

Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of dust and prevent contamination of food and feed. Do not contaminate domestic or irrigation water supplies, lakes, streams and ponds. Do not re-use container; destroy when empty.

REGISTRATION NO. 10904  
PEST CONTROL PRODUCTS ACT

CIBA-GEIGY CANADA LTD.,  
Agricultural Division  
6860 Century Avenue,  
Mississauga, Ontario  
L5N 2W5

GENERAL DIRECTIONS:

WEEDS CONTROLLED: Princep controls the following weeds:

Broadleaves: lady's-thumb, lamb's-quarters, purslane, ragweed,

volunteer clovers, wild buckwheat, smartweed.

Annual Grasses: barnyard grass, crabgrass, wild oats, yellow foxtail. Princep 80W will also control most perennial species starting freshly from seed.

Mixing: Mix by adding the recommended amount of powder to the spray tank while filling with clear water. Gentle agitation is required during mixing and spraying.

Spraying: Spray at pressures 200-300 kPa. Use nozzle screens of 50 mesh size or larger. Keep Princep mixture well agitated and spray evenly to cover the surface to be treated. After any break in the spraying operations, agitate thoroughly. After using, wash sprayer thoroughly with clean water.

#### PRECAUTIONS:

Princep is a residual herbicide. Use the lower rates for coarse, sandy soil and the higher rates for clay soils and soil high in organic matter. After spraying with Princep 80W do not plant any crop in the treated area in the same year except corn. Sugar beets are sensitive to Princep and should not be planted on land treated with Princep the previous year. If rotation is planned for the following year, observe these precautions:

1. Where rates in excess of 2.25 kg per hectare have been applied, do not plant rotational crops the following year.
2. Thorough tillage, including ploughing the land flat as opposed to setting the furrow on edge, should precede the planting of any rotational crop.
3. Uneven application of Princep may result in injury to succeeding crops.
4. When extended periods of dry weather occur during the year of treatment, there can be some injury to such succeeding crops as white beans, onions, peas, tomatoes, and turnips. Injury is most likely to occur when the seeding crop is subjected to periods of stress, e.g. during periods of abnormally hot, dry weather. When the directions outlined on this label are followed, injury to these crops is unlikely to occur under normal weather conditions.
5. Where rainfall is sufficient to cause erosion, soil

containing Princep may wash to lower areas of land and injure existing or subsequent crops.

#### SPECIFIC CROPS:

Apples and Pears: Bearing and non-bearing: Trees established one year or more - apply 2.75-5.5 kg in 300 litres of water per hectare prior to weed emergence in the spring.

Loganberry: Established plantings only - apply 4.25-6.75 kg in 300 litres of water per hectare to base of canes in early spring prior to new cane growth.

Raspberry: Established planting only - apply 2.25-2.75 kg in 300 litres of water per hectare at base of canes in early spring. Do not spray young shoots.

Grapes (Eastern Canada only): Only for vineyards established 3 years or more. Broadcast 4.5-5.5 kg in 300 litres of water per hectare in fall or early spring prior to weed emergence. On light soils use 4.5 kg per hectare.

Strawberries (Coastal British Columbia only): First year plantings: Cultivate mid-September and apply 2.25 kg in 300 litres of water per hectare.

Bearing plants: Cultivate after harvest and irrigate if soil is dry before applying 2.25 kg in 300 litres of water per hectare. For control of all germinating weeds, apply again in mid-September at 2.25 kg per hectare after cultivating. Do not apply before or during harvest.

Western Canada only (not including Coastal British Columbia): Only for new plantings established at least six weeks. Cultivate prior to application of 2.25 kg in 300 litres of water per hectare. Irrigate following application if soil is dry. Do not use Princep until plants are growing vigorously.

Highbush Blueberries: Apply simazine at 2.75-4.25 kg/hectare to base of plants in early spring.

Blackberries: Established plantings - apply simazine at 2.75-4.25 kg/hectare to the base of blackberry plants in early spring before new growth commences. Use the low rate on coarse textured soils and the high rate on fine textured soils.

Asparagus: Established plantings only - apply 2.75-4.25 kg in 300 litres of water per hectare after discing in spring prior to weed and spear emergence and at least 7 days before first cutting. A second application may be applied after harvest completion if weeds are removed. Do not apply during cutting season.

Woody Ornamentals and Nursery Stock: Established one year or more. To control germinating weeds in: cedar (Arborvitae, Thuja spp.), barberry, apple, flowering crabapple (Malus spp.), boxwood, cotoneaster, dogwood, holly, rose, yews (Taxus spp.), chamaecyparis, hemlock, juniper, multiflora rose, peony, blue spruce, Norway spruce, red spruce, white spruce, mugho pine, black walnut, white ash.

Apply 2.75-4.25 kg in 350 litres of water per hectare in the fall or spring prior to weed emergence. If weeds have emerged, hoe or cultivate before application. Apply before buds break in spring. Use 2.75 kg for sandy or low organic matter soils. Use 4.25 kg for clay or high organic matter soils.

NOTE: Do not use treated areas for nursery seedbeds or cutting beds for at least 12 months after treatment. If application was uneven or, if rates in excess of those recommended have been applied, a longer period should elapse before such use.

Shelter Belts: Established one growing season or more: caragana, green ash, Siberian elm, American elm and boxelder maple.

Apply 5.5 - 8.25 kg in 550 litres of water per hectare before weeds emerge. Apply in fall or early spring. Injury may occur to trees grown in saline soils.

CHRISTMAS TREE AND WOODLAND PLANTATIONS (less than 500 ha):

For control of germinating annual and perennial grasses and broadleaf weeds in new or established plantings of white pine and balsam Fir (2-0 stock or older).

Rate of Princep 80W per hectare of trees:

ROW SPACING	.6M BAND	1 M BAND
1.8 m	1.75-2.75 kg	2.75-4 kg

1.5 m	2.25-3.25 kg	3.25-5.25 kg
1.2 m	2.75-4 kg	4-6 kg

Apply 5.5 - 8.25 kg in 350 litres of water per hectare of ground treated. Apply in a band centred over the rows. Application may be made directly over trees.

Apply in spring prior to weed growth or in fall prior to freeze up. If weeds have emerged, treatment may be unsatisfactory.

NOTE: Use the higher rate where there are heavy infestations of perennial grasses, eg., quackgrass.

Alfalfa: For established alfalfa stands at least one year old. Make one application per year in the fall after the last cutting but prior to permanently frozen ground conditions. Apply 1.5 kg in 300 litres of water per hectare.

Birdsfoot Trefoil: For established fields only. Apply only in September to November. Apply 1.5 kg in 300 litres of water per hectare. May be applied in year of seeding if population is at least 5 plants per 1 m<sup>2</sup> and if plants are at least 15 cm.

PRECAUTIONS (Alfalfa and Trefoil): Do not overlap application. Do not apply Gramoxone within one year after Princep 80W application. Do not apply Princep 80W to the same field for more than three consecutive years.

NOTE: Allow 30 days between application and grazing to dairy and beef cattle and sheep, and 60 days between application and cutting for hay.

Corn: Soil Preparation - As Princep is a residual herbicide, even coverage of the soil surface is essential for good weed control; Princep should be applied to a firm, level seedbed. If the seedbed is rough or cloddy, roll or cultipack before spraying.

Cultivations - Princep requires rainfall to be activated. If some seedlings escape the treatment in dry weather, a shallow cultivation may be necessary.

Time of Application - Apply Princep 80W immediately after seeding, prior to weed emergence and not later than 3 - days after seeding. Princep may also be applied one week before

seeding; incorporate to a depth of 2.5 cm.

Mixing Instructions - Follow mixing instructions with water as outlined on page 4.

Application Rate	Soil Type	Overall Spray
	Light and sandy	2 kg
	Loam and clays	2.75 kg

NOTE: Where grass weeds predominate, use the 2.75 kg rate.

RESTRICTED USE:

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

NATURE OF RESTRICTION: "This product is to be used only in a manner authorized; contact local pesticide regulatory authorities regarding appropriate use permits that may be required".

AQUATIC VEGETATION:

Aquatic Vegetation Control - Permission to use Princep 80W has to be obtained from Provincial Government authorities. Obtain permits for use prior to application.

Weeds Controlled - Filamentous algae (pond scum) and other aquatic weeds in ponds where little or no water flow-through exists.

Time of Application - Apply early in season before dense growth of vegetation develops. If application is made late in season oxygen content of pond will be depleted and may present hazard to fish. Some resurgence of growth may occur in ponds with minimum water flow-through.

PONDS WITH NO WATER FLOW-THROUGH OR PONDS IN WHICH WATER FLOW HAS BEEN CLOSED OFF BEFORE TREATMENT AND WILL REMAIN SO FOR AT LEAST 10 DAYS THEREAFTER:

Aquatic weeds controlled - Filamentous algae (pond scum)

Rate: 6 g per 10,000 litres of water  
0.6 g/cubic metre of water

Submerged and floating aquatic weeds such as pondweeds (Potamogeton spp.), Canada waterweed (Anacharis canadensis), duckweed (Lemna minor), tape grass (Vallisneria americana), water moss (Fontinalis spp.), coontail (Ceratophyllum spp.), naiad (Najas spp.), milfoil (Myriophyllum spp.).

Rate: 12 g per 10,000 litres of water  
1.2 g/cubic metre of water

Stonewort or muskgrass (Chara spp.)

Rate: 24 g per 10,000 litres of water  
2.4 g/cubic metre of water

PONDS WITH MINIMUM WATER FLOW-THROUGH:

Filamentous algae (pond scum)

Rate: 12 g per 10,000 litres of water  
1.2 g/cubic metre of water

Submerged and floating aquatic weeds (as described above)

Rate: 24 g per 10,000 litres of water  
2.4 g/cubic metre of water

Stonewort or muskgrass (Chara spp.)

Rate: 24-36 g per 10,000 litres of water  
2.4-3.5 g/cubic metre of water

\*Use the higher rate when heavy infestations occur.

CONTROL OF VEGETATION IN DRAINAGE DITCHES AND CANALS AND ON BEACHES: For control of rooted aquatic weeds and most annual and perennial terrestrial plants in drainage ditches and canals and on beach areas, apply 27.5 kg Princep 80W in 500-2000 litres of water per hectare, 300 g Princep 80W in 10-30 litres of water per 100 m Application should be made to soil or mud. Applications must; be made when ditches and canals are dry, or nearly so (no flowing water). All or part of a beach area may be treated but control will extend only over the treated area; treatment must be confined to areas above water level. Apply in the fall, well before freeze-up, or as early in the spring as conditions permit. Discing after application will assist in control of deeper rooted weeds and is particularly useful on beaches. Where discing

cannot be done, water should not be introduced to the treated area until sufficient rainfall has occurred to carry the Princep into the soil. Normally this rate of Princep 80W will control weeds for the season.

**DRAWDOWN TREATMENT (FOR PONDS WHERE WATER LEVEL CAN BE LOWERED):**  
For control of most emergent and sub-emergent rooted aquatic weeds, apply 27.5 kg Princep 80W in 500-2000 litres of water per hectare, 300 g Princep 80W in 10-30 litres of water per 100 m<sup>2</sup>. Application should be made to exposed soil or mud. All or part of the bottom area may be treated but control will extend only over treated area. Apply in the fall, well before freeze-up, or as early in the spring as conditions permit.

Water level should not be raised until sufficient rainfall has occurred to carry the Princep into the soil. Normally this rate of Princep 80W will control weeds for the season.

**CAUTION:**

1. Do not use water from treated ponds for irrigation or human consumption.
2. Although Princep is low in toxicity to mammals, there is no residue tolerance established for it in fish; consequently, fish taken from treated ponds should not be used for human consumption.
3. Treated water coming in contact with grass and other vegetation may cause damage.
4. Some damage may occur to trees, such as willows, or to shrubs growing along the margin of the pond.

**FIRST AID:**

If swallowed, give large amounts of water to drink and induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or a poison control centre immediately.

If in eyes, flush with clean water for at least 15 minutes. Hold the eyelids apart. Obtain medical attention if irritation occurs.

If on skin, remove contaminated clothing. Wash skin thoroughly. If irritation occurs, obtain medical attention.

In case of inhalation exposure, remove from contaminated area.  
Obtain medical attention if irritation occurs.

NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and subject there to, the buyer assumes the risk to persons or property arising from the use or handling of this product, and accepts the product on that condition.

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