

2020-0681
2020-10-21

GROUP	5	HERBICIDE
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PRINCEP NINE-T®

HERBICIDE

COMMERCIAL

Water Dispersible Granule for Selective Weed Control

ACTIVE INGREDIENT:

Simazine and related triazines 90%

Contains 1,2-benzisothiazolin-3-one at 0.02% or 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0007%, 2-methyl-4-isothiazolin-3-one at 0.0002% and 2-bromo-2-nitropropane-1,3-diol at 0.015% as preservatives.

READ THE LABEL AND BOOKLET BEFORE USING

REGISTRATION NO.: **16370**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **5 kg**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, ON N1G 4Z3
Telephone: 1-877-964-3682

BAG

1.0 NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

2.0 FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do **not** give any liquid to the person. Do not give anything by mouth to an unconscious person.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on skin or clothing, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of dust, vapours or spray mist.

RESTRICTED ENTRY INTERVAL: DO NOT enter or allow worker entry into treated areas for 12 hours following application (except for stacking, topping, training and pruning in Christmas tree and woodland plantations). **DO NOT** enter or allow worker entry for staking, topping, training and pruning in Christmas tree and woodland plantations for 48 hours following application.

This product should not be mixed/loaded within 30 metres of any wells, lakes, streams, ponds or sink holes in order to avoid the potential of well or surface water contamination. Do not use this product within 10 metres of the above mentioned water sources. Avoid contamination of food and feed, domestic or irrigation water supplies, lakes, streams and ponds. Do not apply this product through any type of irrigation system. Use only on labelled crops. Do not graze

treated immature crops or cut for fodder. In the case of corn, immature means before ear emergence. Sufficient data are not available to support such use. See other cautions for specific crops.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

DO NOT apply using aerial application equipment.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls over a long-sleeved shirt and long pants, and chemical-resistant gloves during mixing/loading. In addition, wear chemical-resistant footwear, a chemical resistant apron and a NIOSH-approved respirator with a dust/mist filter during mixing/loading of dry flowable granules for groundboom applications. When applying the product wear a coverall over a long-sleeved shirt and long pants and chemical-resistant boots. Additionally, wear chemical-resistant gloves when servicing the sprayer and during cleanup.

Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product concentrated solution. Do not reuse them.

Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Store and wash PPE separately from other laundry.

Do not eat, drink or smoke when using product. Wear freshly laundered clothes daily. Wash hands and face before eating, drinking, chewing gum, using tobacco or using the toilet.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to birds and small wild mammals.

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**.

DO NOT apply to any body of water. **DO NOT** contaminate irrigation or drinking water supplies of aquatic habitats by cleaning of equipment or disposal of wastes.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Product must not be used, mixed or loaded, or used within 15 meters of all wells, including abandoned wells, drainage wells and sink holes.

Product must not be mixed or loaded within 15 meters of intermittent streams and rivers, natural or impounded lakes and reservoirs.

One of the following restrictions must be used in applying simazine to fields containing tile drainage systems:

- Do not apply within 20 m of standpipes.
- Apply this product to the entire field and immediately incorporate it to a depth of 5-8 cm.
- Apply this product to the entire field under a no-till practice only when a high crop residue management practice is used. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

7.0 STORAGE

STORE IN A DRY PLACE.

To prevent contamination store this product away from foodstuffs and feed.

8.0 DISPOSAL

1. Empty bag thoroughly into spray tank.
2. Make the empty bag unsuitable for further use.
3. Dispose of the bag in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
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PAMPHLET

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The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

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Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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Product must not be mixed or loaded within 15 meters of intermittent streams and rivers, natural or impounded lakes and reservoirs.

One of the following restrictions must be used in applying simazine to fields containing tile drainage systems:

- Do not apply within 20 m of standpipes.
- Apply this product to the entire field and immediately incorporate it to a depth of 5-8 cm.
- Apply this product to the entire field under a no-till practice only when a high crop residue management practice is used. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

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STORE IN A DRY PLACE.

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1. Empty bag thoroughly into spray tank.
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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT INFORMATION

For fruit and nut crop: Apply the spray to the orchard or vineyard floor, avoiding contact with fruit, foliage or stems.

9.1 Crop Information

PRINCEP NINE – T[®] provides selective weed control in:

Alfalfa	Highbush Blueberries
Apples	Lowbush Blueberries
Apricots	Loganberries
Asparagus	Peaches
Birdsfoot Trefoil	Pears
Blackberries	Plums
Cherry	Raspberries
Christmas Trees and Woodland Plantations	Shelterbelts Strawberries
Corn	Woody Ornamentals and Nursery Stock
Crop Group 14-11 – Tree nuts	
Grapes	

See specific crop use instructions for application rates, timing and proper use.

9.2 Weeds Controlled

Lady's-thumb	Volunteer Clovers
Lamb's-quarters*	Barnyard Grass
Purslane	Crabgrass
Ragweed*	Wild Oats
Wild Buckwheat	Yellow Foxtail
Smartweed	Perennial species starting from seed

*Certain biotypes of the above weeds may not be controlled by PRINCEP NINE–T applications. For specific recommendations, consult your local agricultural authorities.

10.0 DIRECTIONS FOR USE

10.1 Application Information

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply using aerial application equipment.

10.2 Mixing and Spraying Instructions

- Spray pressure - 200-300 kPa
 - Spray volume - minimum of 300 litres per hectare
 - Use 16 mesh suction screen; 50 mesh screens elsewhere on sprayer
1. Spray equipment should be thoroughly flushed with clean water and drained before and after use of PRINCEP NINE-T herbicide.
 2. Fill sprayer 1/2 full of water. Start gentle agitation.
 3. Add PRINCEP NINE-T herbicide slowly. Agitate thoroughly.
 4. Add wettable powder, if applicable, and continue agitation.
 5. Fill tank 9/10 full and add emulsifiable concentrate, if applicable.
 6. Top off tank with water; maintain agitation and spray.
 7. Do not let stand without agitation. After any break in the spraying operations, agitate thoroughly.

10.3 Equipment Clean-Up

To avoid subsequent injury to other crops, thoroughly clean application equipment immediately after spraying each day. Ensure that all traces of the product are removed. Do not allow residue to dry in spray tank. Do not allow solution to remain in lines or tank overnight.

When using tank mixes, consult the tank-mix partner label for additional clean-up instructions. The following recommendations are provided:

1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean application equipment near desirable vegetation, wells or other water sources.
2. Remove all nozzles and screens and wash separately.
3. Dispose of all rinsate in accordance with provincial regulations.

10.4 Buffer zones

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

METHOD OF APPLICATION	CROP	BUFFER ZONES (METRES) REQUIRED FOR THE PROTECTION OF:		
		AQUATIC HABITAT OF DEPTHS:		TERRESTRIAL HABITAT
		LESS THAN 1 M	GREATER THAN 1 M	
Field sprayer ¹	Alfalfa	1	1	4
	Fruit trees < 1 year-old (apple, pear, peach, plum, cherry), apricot, lowbush blueberry, corn (sweet), birdsfoot trefoil	1	1	5
	Highbush blueberry, blackberry, corn (field), CG14-11 – Tree nuts, raspberry, strawberry, nursery stock, woody ornamentals, site preparation for conifer planting	1	1	10
	Asparagus, grape, loganberry, apple tree > 1 year-old	2	1	15
	Shelter belt, woodland and Christmas tree (2 year stock or older)	2	1	20

¹ For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zones can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zones can be reduced by 30%.

When a tank mixture is used, consult the labels for the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixtures.

11.0 CROP USE DIRECTIONS

11.1 Fruit Crops

CROP	RATE ¹ PRINCEP NINE-T HERBICIDE PER HA IN 300 L OF WATER	MAXIMUM NUMBER OF APPLICATIONS PER YEAR	NOTES
Apples, pears	2.5 to 5.0 kg	1	Trees established one year or more Bearing and non-bearing trees. Apply prior to weed emergence, in the spring.
Apples, peaches, apricots	1.1 to 2.2 kg	1	Trees established less than one year Apply once per season. Avoid contact with trunk and leaves of trees. Do not use on sandy soils with organic matter less than 2%. Apply post planting, pre-emergent to weeds, preferably after rain has settled the soil around the trees. Use a back pack sprayer or a tractor mounted boom.
Loganberries	3.75 to 6.0 kg	1	Plantings established one year or more Apply to base of canes in early spring. Do not spray young shoots.
Raspberries	2.0 to 2.5 kg	1	
Blackberries	2.5 to 3.75 kg	1	
Highbush blueberries	2.5 to 3.75 kg	1	
Lowbush blueberries	1.5 to 2.0 kg	1	Plantings established one year or more Apply in late fall to early spring when blueberries are dormant. One broadcast application per season. Use low rate on coarse textured soil. Do not harvest within 60 days of treatment.
Strawberries	1.12 kg	1	Coastal British Columbia only. Cultivate, and then apply in mid-September for first year plantings. For bearing plants, cultivate after harvest and irrigate if soil is dry before application or for control of fall germinating weeds, apply in mid-September. Do not apply before or during harvest.
Grapes	4.0 to 5.0 kg	1	EASTERN CANADA ONLY: Established 3 years or more. Apply in fall or early spring prior to weed emergence.

¹ Use the low rate on sandy soils and the high rate on loams and clay.

11.2 Strawberries (For use in Atlantic Canada only)

Weeds Controlled

Lady's-thumb

Wild Buckwheat

Some perennial species starting from seed

Lamb's-quarters¹

Smartweed

Purslane

Ragweed¹

¹ Certain biotypes of the above weeds may not be controlled by PRINCEP NINE-T herbicide applications. For specific recommendations, consult your local agricultural authorities.

TIMING	RATE/HA/ APPLICATION	MAXIMUM NUMBER OF APPLICATIONS PER YEAR	REMARKS
Apply 4 - 6 weeks after transplanting or again during late summer/early fall	In the year of establishment 0.56 kg	1	Use only on soils with a pH of 5.6 or lower and more than 2% organic matter.
Apply AFTER renovation or during the late fall	In the years following the establishment year 0.89 to 1.12 kg ¹	1	DO NOT make applications prior to harvest. Use only on soils with a pH of 5.6 or lower and more than 2% organic matter.

¹ Use the higher rate of PRINCEP NINE–T Herbicide for heavier weed problems.

11.3 Fruit Trees

TANK MIXES*			
CROP(S)	PEST(S)	RATE/DOSAGE	REMARKS
Fruit trees (first-year, non-bearing): apples, apricot, cherry, peach, pear and plum	Annual Grasses and Broadleaf Weeds	PRINCEP NINE-T Herbicide : 1.1 - 2.2 kg/ha plus DUAL™ MAGNUM® or DUAL II MAGNUM®: 1.25 - 1.75 L/ha	Apply once per season. Avoid contact with trunk and leaves of trees. Do not use on sandy soils with organic matter less than 2%. Apply post planting, pre-emergent to weeds, preferably after rain has settled the soil around the trees. Backpack sprayer or tractor mounted boom may be used for application. Late season emerging fall panicum and crabgrass may escape treatment.

* Refer to labels of products to be tank mixed with PRINCEP NINE–T Herbicide for detailed instructions.

11.4 Field Crops

CROP	RATE PRINCEP NINE–T HERBICIDE PER HA IN 300 L OF WATER	NOTES
Alfalfa	1.1 kg	For stands at least one year old, make one application per year in the fall after last cutting but prior to permanently frozen ground conditions.
Birdsfoot Trefoil	1.1 kg	For stands at least one year old apply from September to November before permanently frozen ground conditions. May be applied in year of seeding if population is at least 5 plants per 10 cm ² and if plants are at least 15 cm high.

NOTES: (Alfalfa and Birdsfoot trefoil)

- Do not overlap application.
- Do not apply GRAMOXONE® Liquid Herbicide within one year after the PRINCEP NINE–T Herbicide application.
- Do not apply PRINCEP NINE–T Herbicide to the same field for more than three consecutive years.
- Allow 30 days between application and grazing to dairy and beef cattle and sheep, and 60 days between application and cutting for hay.

11.5 Corn

CROP	RATE PRINCEP NINE-T HERBICIDE PER HA IN 300 L OF WATER	NOTES
Corn	1.5 to 2.0 kg	Use low rate on sandy soils, and the high rate on loams and clays, or where grassy weeds predominate. For single application on soils that are not highly erodible or on highly erodible soil if at least 20% of the soil is covered with plant residues.
	1.5 to 1.79 kg	For single application on highly erodible soil less than 30% of the soil is covered with plant residues.

ADDITIONAL NOTES ON CORN

Timing: Apply one week prior to seeding; incorporate to a depth of 2.5 cm.
OR

Apply no later than 4 days after seeding prior to weed emergence.

Soil Preparation: Apply to a firm level seedbed. Cultipack if necessary.

Cultivation: PRINCEP NINE-T Herbicide requires rainfall to be activated. Escaped weeds in dry weather should receive a shallow cultivation.

PRINCEP NINE – T Herbicide is a residual herbicide; the following precautions should be observed:

- Only corn may be planted during the season of application.
- If rates greater than 2 kg/ha are used, only corn may be planted the following year.
- Injury may occur to succeeding crops of white beans, onions, peas, tomatoes and turnips if dry weather occurs during the year of application. Sugar beets should not be planted the year following PRINCEP NINE-T Herbicide application.
- Uneven application may damage succeeding crops.
- Ploughing the land flat, as opposed to setting the furrow on edge, should precede the planting of any rotational crop.
- Eroded soil containing PRINCEP NINE-T Herbicide may injure existing or subsequent crops.

11.6 Vegetable Crops

CROP	RATE* PRINCEP NINE-T HERBICIDE PER HA IN 300 L OF WATER	NOTES
Asparagus	2.5 to 3.75 kg	Established Plantings Only Apply 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 established weeds are removed. Do not apply during cutting season.

* Use the low rate on sandy soils and the high rate on loams and clays.

11.7 Woody Ornamentals & Nursery Stock

CROP	RATE PRINCEP NINE-T HERBICIDE PER HA IN 300 L OF WATER	NOTES
Cedar (Arbor vitae, 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	2.5 to 3.75 kg	Apply only to stock which is established one year or more Apply in the fall or spring prior to weed emergence and bud-break. If weeds have emerged, hoe or cultivate before application. Use low rate for sandy or low organic matter soils. Use high rate for clay or high organic 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.

CROP	RATE PRINCEP NINE-T HERBICIDE PER HA IN 300 L OF WATER	NOTES
Nursery container stock - Juniper, Cedar, Yew	2.5 kg	Apply once per season, one month after planting. Apply prior to weed emergence. If weeds have emerged, remove them from container before application.

11.8 Shelterbelts

CROP	RATE PRINCEP NINE-T HERBICIDE PER HA IN 500 L OF WATER	NOTES
Caragana, Green ash, Siberian elm, American elm, Boxelder maple	4.48 kg	Established one season or more Apply in the fall or early spring, pre-emergent to weeds. Injury may occur to trees grown in saline soils.

11.9 Christmas Trees & Woodland Plantations (less than 500 ha)

CROP	RATE PRINCEP NINE-T HERBICIDE PER HA IN 300 L OF WATER	NOTES
White pine, Balsam fir (2 year old stock or older)	4.48 kg*	New or established plantings Apply in the spring prior to weed growth or in fall prior to freeze up. Use the higher rate where there are heavy infestations of perennial grasses, e.g., quack grass.

* This rate refers to the actual treated area. Band spraying will require proportionately less according to row spacing and band-width. Apply in a band centered over the rows. The following chart shows the rate of PRINCEP NINE-T Herbicide per hectare of trees.

RATE OF PRINCEP NINE-T HERBICIDE PER HA OF TREES (KG)		
ROW SPACING	70 CM BAND	1.0 M BAND
2.1 m	1.7 to 2.3	2.4 to 3.3
1.8 m	1.9 to 2.7	2.8 to 3.9
1.5 m	2.3 to 3.3	3.3 to 4.7
1.2 m	2.9 to 4.1	4.2 to 5.8

11.10 Site Preparation for Conifer Planting (less than 500 ha)

CROP	RATE PRINCEP NINE-T HERBICIDE PER HA IN 300 L OF WATER	NOTES
Spruce, Fir, Pine seedlings	3.9 kg	<p>Site preparation for planting One application mid-April to mid-May. Planting may follow within a few days. Backpack sprayer: Apply 3.9 kg/ha of treated band area. Tractor Boom/Boomless Sprayer: Apply 3.9 kg/ha</p>

12.0 MINOR USES

READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

12.1 Crop Group 14-11 – Tree Nuts

Crop Group 14-11 – Tree Nuts (African nut tree, Almond, Beechnut, Brazil nut, Brazilian pine, Bunya, Bur oak, Butternut, Cajou, Candlenut, Cashew, Chestnut, Chinquapin, Coconut, Coquito nut, Dika nut, Gingko, Guiana chestnut, Hazelnut, Heartnut, Hickory nut, Japanese horse-chestnut, Macadamia nut, Mongongo nut, Monkey-pot, Monkey puzzle nut, Okari nut, Pachira nut, Peach palm nut, Pecan, Pequi, Pili nut, Pine nut, Pistachio, Sapucaia nut, Tropical almond, black Walnut, English Walnut, Yellowhorn, cultivars, varieties and/or hybrids of these commodities.)

Weeds Controlled

PRINCEP NINE-T Herbicide alone

Lady's-thumb	Volunteer Clovers
Lamb's-Quarters*	Barnyard Grass
Purslane	Crabgrass
Ragweed*	Wild Oats
Wild Buckwheat	Yellow Foxtail
Smartweed	Perennial species starting from seed

*Certain biotypes of the above weeds may not be controlled by PRINCEP NINE-T HERBICIDE applications. For specific recommendations, consult your local agricultural authorities.

TIMING	RATE/HA/ APPLICATION	REMARKS
One application per year in spring prior to emergence of weeds	PRINCEP NINE-T Herbicide: 2.0 to 2.5 kg	<p>Apply, using ground application equipment only, to orchard floor, avoiding contact with fruit, foliage, stems or trunk, to trees established one year or more. DO NOT apply to almond, macadamia nut, pecan, filbert, or walnut trees that have been established in the grove for less than two years.</p> <p>Thorough coverage is required for good weed control. Immediately following application on macadamia nut, pecan and walnut, limit overhead sprinkler irrigation to ½ inch. Use the low rate on sandy soil and the high rate on loam or clay soil or where grass weeds predominate.</p> <p>NOTE- Since not all varieties of tree nuts have been tested for tolerance to PRINCEP NINE-T Herbicide, first use of PRINCEP NINE-T Herbicide should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice, especially in sandy soils. DO NOT apply to Mission variety of almonds. Do not apply to almond trees propagated on plum rootstocks.</p>

12.2 Filberts and Hazelnuts Only: Tank Mix with GRAMOXONE Liquid Herbicide

Weeds Controlled

Broadleaf Weeds and Grass Weeds

TIMING	RATE/HA/ APPLICATION	REMARKS
One application per year after the weeds have emerged	PRINCEP NINE-T Herbicide: 2.0 to -2.5 kg plus GRAMOXONE Liquid Herbicide: 5.0 L	Apply, using ground application equipment only, to trees established one year or more. Use the low rate of PRINCEP NINE-T Herbicide on sandy soil and the high rate on loam or clay soil or where grass weeds predominate. Thorough coverage is necessary for good weed control. Refer to the GRAMOXONE label for detailed instructions before tank-mixing with PRINCEP NINE-T Herbicide.

13.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, PRINCEP Nine-T Herbicide is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to PRINCEP Nine-T Herbicide and other Group 5 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of PRINCEP Nine-T Herbicide or other Group 5 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information and to report suspected resistance, contact Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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